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Water Resources Data for Wyoming
Water Year 1978. Volume 2. Green River Basin, Bear River Basin, and Snake River Basin

Geological Survey
Cheyenne, WY

1980

U.S. Department of Commerce
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Volume 2. Green River Basin, Bear River Basin, and Snake River Basin

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT WY-78-2

WATER YEAR 1978

Prepared in cooperation with the State of Wyoming
and with other agencies

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UNITED STATES DEPARTMENT OF THE INTERIOR

CECIL D. ANDRUS, Secretary

GEOLOGICAL SURVEY

H. William Menard, Director

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1980

PREFACE

This report was prepared by personnel of the Wyoming district of the Water Resources Division of the U.S. Geological Survey under the supervision of William W. Dudley, Jr., District Chief, and Alfred Clebsch, Jr., Regional Hydrologist, Central Region. It was done in cooperation with the State of Wyoming and with other agencies.

This report is one of a series issued by State. General direction for the series is by J. S. Cragwall, Jr., Chief Hydrologist, U.S. Geological Survey, and Philip Cohen, Assistant Chief Hydrologist for Scientific Publications and Data Management.

Data for Wyoming are in two volumes as follows:

Volume 1. Missouri River Basin
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GAGING STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED

Letter after station name designates type of data: [(d) discharge, (e) elevation, gage height, or contents, (c) chemical, (b) biological, (m) microbiological, (p) pesticides, (t) water temperature, (s) sediment]

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WATER RESOURCES DATA FOR WYOMING, 1978

VOLUME 1: MISSOURI RIVER BASIN
VOLUME 2: GREEN RIVER, BEAR RIVER, AND SNAKE RIVER BASINS

INTRODUCTION

Water resources data for the 1978 water year for Wyoming consists of records of stage, discharge, and water quality of streams; stage, contents, and water quality of lakes and reservoirs; and water levels and water quality of ground water. This volume contain discharge records for 62 gaging stations; stage and contents for 5 lakes and reservoirs, water quality for 43 gaging stations, 19 ungaged stations, and 75 wells and springs; and water levels for 8 observation wells. Also included are 24 crest-stage partial-record stations. In Volume 1 (Missouri River basin) locations of gaging stations and peak-flow partial-record stations are shown in figures 4-6, and locations of observation wells are shown in figures 7-9. In Volume 2 (Green River, Bear River, and Snake River basins) locations of gaging stations and peak-flow partial-record stations are shown in figures 4 and 5, and locations of observation wells are shown in figure 6. Additional water data were collected at various sites, not part of the systematic data collection program, and are published as miscellaneous measurements. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State and Federal agencies in Wyoming.

Records of discharge or stage of streams, and contents or stage of lakes and reservoirs were first published in a series of U.S. Geological Survey water-supply papers entitled "Surface Water Supply of the United States." Through September 30, 1960, these water-supply papers were in an annual series and then in a 5-year series for 1961-65 and 1966-70. Records of chemical quality, water temperatures, and suspended sediment were published from 1941 to 1970 in an annual series of water-supply papers entitled "Quality of Surface Waters of the United States." Records of ground-water levels were published from 1935 to 1974 in a series of water-supply papers entitled "Ground-Water Levels in the United States." Water-supply papers may be consulted in the libraries of the principal cities in the United States or may be purchased from Branch of Distribution, U.S. Geological Survey, 1200 South Eads Street, Arlington, VA 22202.

For water years 1961 through 1974, streamflow data were released by the Geological Survey in annual reports on a State-boundary basis. Water-quality records for water years 1964 through 1974 were similarly released either in separate reports or in conjunction with streamflow records. Beginning with the 1975 water year, water data for streamflow, water quality, and ground water are published as an official Survey report on a State-boundary basis. These official Survey reports carry an identification number consisting of the two letter State abbreviation, the last two digits of the water year, and the volume number. For example, this report is identified as "U.S. Geological Survey Water-Data Report WY-78-2." Water-Data reports are for sale by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

COOPERATION

The U.S. Geological Survey and organizations of the State of Wyoming have had cooperative agreements for the systematic collection of streamflow records since 1895, for ground-water levels since 1940, and for water-quality records since 1946. Some records have been collected and computed by contractors in accordance with U.S. Geological Survey specifications and under Geological Survey quality control. Organizations that assisted in collecting data through cooperative agreement with the Survey are:

Wyoming Department of Agriculture, Larry J. Bourret, Commissioner of Agriculture

Wyoming State Engineer, George L. Christopulos

Wyoming Department of Economic Planning and Development, Myron W. Goodson, Chief of Water Development

Wyoming Department of Environmental Quality, Robert E. Sundin, Director

Wyoming Highway Department, Leno H. Menghini, Superintendent and Chief Engineer

Wyoming Water Resources Research Institute, Paul A. Rechard, Director

City of Cheyenne, Board of Public Utilitites, Ray L. Sherard, Director

Assistance in the form of funds or services was given by the Bureau of Reclamation, the Bureau of Land Management, and the National Park Service, Department of the Interior, the Corps of Engineers, U.S. Army, and the Environmental Protection Agency, in collecting data published in the report. Funds and services were also provided by the Missouri River Basin Program. Organizations that supplied data are acknowledged in station descriptions.

ACKNOWLEDGMENT

Wyoming district personnel who contributed significantly to the collection and preparation of the data in this report were, E.S. Denison, chief, Hydrologic Surveillance Section, assisted by D.L. Butler, D.D. Carlson, H.B. Fabricius, W.R. Glass, S.L. Green, R.L. Muench, C.F. Obert, D.J. O'Connell, D.J. Pangburn, K.G. Polinoski, and B.J. Tucker.

HYDROLOGIC CONDITIONS

Streamflow at the beginning of the 1978 water year was deficient at the index stations. Monthly and annual means are compared with medians for the index sites in figure 3. The median is for the 30-year period, 1941-70. This below normal trend continued through the first part of the water year. Runoff from the above normal snowpack increased the monthly means to above normal during the last part of the water year. The snowpack was above normal in all but the Snake River basin. Streamflow at the index stations continued above normal through the remainder of the water years.

Rain and snow occurred from April 27 to May 12 in amounts sufficient to maintain wet soil conditions in most basins. These antecedent conditions created high runoff potential and the heavy rains of May 16-19 caused flooding throughout northern and eastern Wyoming. Floods occurred in the Bighorn River basin, Tongue River basin, Powder River basin, Cheyenne River basin, and parts of the North Platte River basin. The recurrence interval of the peak discharge at several gaging stations in northeastern Wyoming exceeded 100-years. At the National Weather Service reporting station, Gillette 2E, 11.08 inches fell during May. This is 8.58 inches above the 58-year average for May at this site. Twelve counties were declared disaster areas and damages to public property, private property, and agriculture exceeded 16 million dollars.

Reservoir storage in the Yellowstone River basin increased 512,500 acre-feet (632 hm^3) during the year. Storage in Keyhole Reservoir attained a maximum of record 210,200 acre-feet (259 hm^3) May 21. In the Platte River basin, storage in the major reservoirs increased 338,700 acre-feet (418 hm^3). Storage in the Green River basin increased 27,200 acre-feet (33.5 hm^3) during the year.

NOTICE

During water year 1978, revisions were made in the terminology used to define 143 of the water-quality parameter codes that have been used by the Geological Survey in its publication of water-quality data and in its WATSTORE data system. These revisions were made to achieve consistency in terminology and to conform to a joint USGS-EPA agreement on terminology. They do not represent a change in the way the codes have been used in the past or in the association of specific code numbers with identified analytical procedures.

Use of the new terminology began with data for the 1978 water year, and therefore, it first appears in this publication. Definitions on which the terminology is based are included in the "Definitions" section of this report, and a table showing both old and new terminology is attached as an appendix to the report.

DEFINITION OF TERMS

Terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are defined below. See also the table for converting English units to International System of units (SI) on the inside of the back cover.

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.

Adenosine triphosphate (ATP) is the primary energy donor in cellular life process. Its central role in living cells makes it an excellent indicator of the presence of living material in water. A measure of ATP therefore provides a sensitive and rapid estimate of biomass. ATP is reported in micrograms per liter of the original water sample.

Algae are mostly aquatic single-celled, colonial, or multi-celled plants, containing chlorophyll and lacking roots, stems, and leaves.

Algal growth potential (AGP) is the maximum algal dry weight biomass that can be produced in a natural water sample under standardized laboratory conditions. The growth potential is the algal biomass present at stationary phase and is expressed as milligrams dry weight of algae produced per liter of sample.

Aquifer is a geologic formation, group of formations, or part of a formation that contains sufficient saturated permeable material to yield significant quantities of water to wells and springs.

Artesian means confined and is used to describe a well in which the water level stands above the top of the aquifer, tapped by the well. A flowing artesian well is one in which the water level is above the land surface.

Bacteria are microscopic unicellular organisms, typically spherical, rodlike, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, others perform an essential role in nature in the recycling of materials; for example, by decomposing organic matter into a form available for reuse by plants.

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria which ferment lactose with gas formation within 48 hours at 35°C. In the laboratory these bacteria are defined as the organisms which produce colonies within 24 hours when incubated at 35°C ± 1.0°C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal coliform bacteria are bacteria that are present in the intestines or feces of warm blooded animals. They are often used as indicators of the sanitary quality of the water. In the laboratory they are defined as all organisms which produce blue colonies within 24 hours when incubated at 44.5°C ± 0.2°C on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal streptococcal bacteria are bacteria found also in intestines of warm-blooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria which are capable of growth in brain-heart infusion broth. In the laboratory they are defined as all the organisms which produce red or pink colonies within 48 hours at 35°C ± 1.0°C on M-enterrococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Bed material is the unconsolidated material of which a streambed, lake, pond, reservoir, or estuary bottom is composed.

Biochemical oxygen demand (BOD) is a measure of the quantity of dissolved oxygen, in milligrams per liter, necessary for the decomposition of organic matter by microorganisms, such as bacteria.

Biomass is the amount of living matter present at any given time, expressed as the mass per unit area or volume of habitat.

Ash mass is the mass or amount of residue present after the residue from the dry mass determination has been ashed in a muffle furnace at a temperature of 500°C for 1 hour. The ash mass values of zooplankton and phytoplankton are expressed in grams per cubic meter (g/m^3), and periphyton and benthic organisms in grams per square meter (g/m^2).

Dry mass refers to the mass of residue present after drying in an oven at 60°C for zooplankton and 105°C for periphyton, until the mass remains unchanged. This mass represents the total organic matter, ash and sediment, in the sample. Dry mass values are expressed in the same units as ash mass.

Organic mass or volatile mass of the living substance is the difference between the dry mass and ash mass, and represents the actual mass of the living matter. The organic mass is expressed in the same units as for ash mass and dry mass.

Wet mass is the mass of living matter plus contained water.

Bottom material: See Bed material.

Recoverable from bottom material the amount of a given constituent that is in solution after a representative sample of bottom material has been digested by a method (usually using an acid or mixture of acids) that results in dissolution of only readily soluble substances. Complete dissolution of all bottom material is not achieved by the digestion treatment and thus the determination represents less than the total amount (that is, less than 95 percent) of the constituent in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Total in bottom material the total amount of a given constituent in a representative sample of bottom material. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total in bottom material."

Cells/volume refers to the number of cells of any organism which is counted by using a microscope and grid or counting cell. Many planktonic organisms are multicelled and are counted according to the number of contained cells per sample, usually milliliters (mL) or liters(L).

Cfs-day is the volume of water represented by flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, about 646,000 gallons or 2,447 cubic meters.

Chemical oxygen demand (COD) is a measure of the chemically oxidizable material in the water, and furnishes an approximation of the amount of organic and reducing material present. The determined value may correlate with natural water color or with carbonaceous organic pollution from sewage or industrial wastes.

Chlorophyll refers to the green pigments of plants. Chlorophyll a and b are the two most common pigments in plants.

Color unit is produced by one milligram per liter of platinum in the form of the chloroplatinate ion. Color is expressed in units of the platinum-cobalt scale.

Contents is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

Control structure as used in this report is a structure on a steam or canal that is used to regulate the flow or stage of the stream or to prevent the intrusion of salt water.

Cubic feet per second per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area.

Cubic foot per second (FT^3/S, ft^3/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to approximately 7.48 gallons per second or 448.8 gallons per minute or 0.02832 cubic meters per second.

Discharge is the volume of water (or more broadly, volume of fluid plus suspended sediment), that passes a given point within a given period of time.

Instantaneous discharge is the discharge at a particular instant of time.

Mean discharge (MEAN) is the arithmetic mean of individual daily mean discharges during a specific period.

Dissolved that material in a representative water sample which passes through a 0.45 µm membrane filter. This is a convenient operational definition used by Federal agencies that collect water data. Determinations of "dissolved" constituents are made on subsamples of the filtrate.

Diversity index is a numerical expression of evenness of distribution of aquatic organisms. The formula for diversity index is:

$$\bar{d} = -\sum_{i=1}^{s} \frac{n_i}{n} \log_2 \frac{n_i}{n}$$

Where n_i is the number of individuals per taxon, n is the total number of individuals, and s is the total number of taxa in the sample of the community. Diversity index values range from zero, when all the organisms in the sample are the same, to some positive number, when some or all of the organisms in the sample are different.

Drainage area of a stream at a specific location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the river above the specified point. Figures of drainage area given herein include all closed basins, or noncontribution areas, within the area unless otherwise noted.

Drainage basin is a part of the surface of the earth that is occupied by a drainage system, which consists of a surface stream or a body of impounded surface water together with all tributary surface streams and bodies of impounded surface water.

Gage height (G.H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the more general term "stage," although gage height is more appropriate when used with a reading on a gage.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of hydrologic data are obtained.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate ($CaCO_3$).

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as delineated by the Office of Water Data Coordination on the State Hydrologic Unit Maps; each hydrologic unit is identified by an 8-digit number.

Metamorphic stage refers to the stage of development that an organism exhibits during its transformation from an immature form to an adult form. This developmental process exists for most insects, and the degree of difference from the immature stage to the adult form varies from relatively slight to pronounced, with many intermediates. Examples of matamorphic stages of insects are egg-larva-adult or egg-nymph-adult.

Methylene blue active substance (MBAS) is a measure of apparent detergents. This determination depends on the formation of a blue color when methylene blue dye reacts with synthetic detergent compounds.

Micrograms per gram (μg/g) is a unit expressing the concentration of a chemical element as the mass (micrograms) of the element sorbed per unit mass (gram) of sediment.

Micrograms per liter (UG/L, μg/L) is a unit expressing the concentration of chemical constituents in solution as mass (micrograms) of solute per unit volume (liter) of water. One thousand micrograms per liter is equivalent to one milligram per liter.

Milligrams per liter (MG/L, mg/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter represent the mass of solute per unit volume (liter) of water. Concentration of suspended sediment also is expressed in mg/L, and is based on the mass of sediment per liter of water-sediment mixture.

National Geodetic Vertical Datum of 1929 (NGVD) is a geodetic datum derived from a general adjustment of the first order level nets of both the United States and Canada. It was formerly called "Sea Level Datum of 1929" or "mean sea level" in this series of reports. Although the datum was derived from the average sea level over a period of many years at 26 tide stations along the Atlantic, Gulf of Mexico, and Pacific Coasts, it does not necessarily represent local mean sea level at any particular place.

Organism is any living entity, such as an insect, phytoplankter, or zooplankter.

Organism count/area refers to the number of organisms collected and enumerated in a sample and adjusted to the number per area habitat, usually square meters (m^2), acres, or hectares. Periphyton benthic organisms, and macrophytes are expressed in these terms.

Organism count/volume refers to the number of organisms collected and enumerated in a sample and adjusted to the number per sample volume, usually milliters (mL) or liters (L). Numbers of planktonic organisms can be expressed in these terms.

Total organism count is the total number of organisms collected and enumerated in any particular sample.

Partial-record station is a particular site where limited streamflow and/or water-quality data are collected systematically over a period of years for use in hydrologic analyses.

Particle-size is the diameter, in millimeters (mm), of suspended sediment or bed material determined by either sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

Particle-size classification used in this report agrees with recommendations made by the American Geophysical Union Subcommittee on Sediment Terminology.

The classification is as follows:

Classification	Size (mm)	Method of analysis
Clay.........	0.00024 - 0.004	Sedimentation.
Silt.........	.004 - .062	Sedimentation.
Sand.........	.062 - 2.0	Sedimentation or sieve.
Gravel.......	2.0 - 64.0	Sieve.

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic material is removed and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native water analysis.

Percent composition is a unit for expressing the ratio of a particular part of a sample or population to the total sample or population, in terms of types, numbers, mass or volume.

Pesticides are chemical compounds used to control undesirable plants and animals. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides. Insecticides and herbicides, which control insects and plants respecitively, are the two categories reported.

Picocurie (PC, pCi) is one trillionth (1×10^{12}) of the amount of radioactivity represented by a curie (Ci). A curie is the amount of radioactivity that yields 3.7×10^{10} radioactive disintegrations per second. A picocurie yields 2.22 dpm (disintegrations per minute).

Plankton is the community of suspended, floating, or weakly swimming organisms that live in the open water of lakes and rivers.

Periphyton is the assemblage of microorganisms attached to and growing upon solid surfaces. While primarily consisting of algae, they also include bacteria, fungi, protozoa, rotifers, and other small organisms.

Phytoplankton is the plant part of the plankton. They are usually microscopic and their movement is subject to the water currents. Phytoplankton growth is dependent upon solar radiation and nutrient substances. Because they are able to incorporate as well as release materials to the surrounding water, the phytoplankton have a profound effect upon the quality of the water. They are the primary food producers in the aquatic environment, and are commonly known as algae.

Blue-green algae are a group of phytoplankton organisms having a blue pigment, in addition to the green pigment called chlorophyll. Blue-green algae often cause nuisance conditions in water.

Diatoms are the unicellular or colonial algae having a siliceous shell. Their concentrations are expressed as number of cells/mL of sample.

Green algae have chlorophyll pigments similar in color to those of higher green plants. Some forms produce algal mats or floating "moss" in lakes. Their concentrations are expressed as number of cells/mL of sample.

Zooplankton is the animal part of the plankton. Zooplankton are capable of extensive movements within the water column, and are often large enough to be seen with the unaided eye. Zooplankton are secondary consumers feeding upon bacteria, phytoplankton, and detritus. Because they are the grazers in the aquatic environment, the zooplankton are a vital part of the aquatic food web. The zooplankton community is dominated by small crustaceans and rotifers.

Polychlorinated biphenyls (PCBs) are industrial chemicals that are mixtures of chlorinated biphenyl compounds having various percentages of chlorine. They are similar in structure to organochlorine insecticides.

Primary productivity is a measure of the rate at which new organic matter is formed and accumulated through photosynthetic and chemosynthetic activity of producer organisms (chiefly green plants). The rate of primary production is estimated by measuring the amount of oxygen released (oxygen method) or the amount of carbon assimilated by the plants (carbon method).

Milligrams of carbon per area or volume per unit time [mg C/(m^2.time) for periphyton and macrophytes and mg C/(m^3.time)] for phytoplankton are units for expressing primary productivity. They define the amount of carbon dioxide consumed as measured by radioactivity carbon (carbon 14). The carbon 14 method is of greater sensitivity than the oxygen light and dark bottle method, and is preferred for use in unenriched waters. Unit time may be either the hour or day, depending on the incubation period.

Milligrams of oxygen per area or volume per unit time [mg O_2/(m^2.time) for periphyton and macrophytes and mg O_2/(m^3.time)] for phytoplankton are the units for expressing primary productivity. They define production and respiration rates as estimated from changes in the measured dissolved oxygen concentration. The oxygen light and dark bottle method is preferred if the rate of primary production is sufficient for accurate measurements to be made within 24 hours. Unit time may be either the hour or day, depending on the incubation period.

Runoff in inches (IN, in) shows the depth to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

Sediment is solid material that originates mostly from disintegrated rocks and is transported by, suspended in, or deposited from water; it includes chemical and biochemical precipitates and decomposed organic material, such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Suspended, recoverable the amount of a given constituent that is in solution after the part of a representative water-suspended sediment sample that is retained on a 0.45 m membrane filter has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all the particulate matter is not achieved by the digestion treatment and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Determinations of "suspended, recoverable" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) *dissolved* and (2) *total recoverable* concentrations of the constituent.

Suspended sediment is the sediment that at any given time is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L).

Suspended-sediment discharge (tons/day) is the rate at which dry weight of sediment passes a section of a stream or is the quantity of sediment, as measured by dry weight or volume, that passes a section in a given time. It is computed by multiplying discharge times mg/L times 0.0027.

Suspended-sediment load is the quantity of suspended sediment passing a section in a specified period.

Suspended, total the total amount of a given constituent in the part of a representative water-suspended sediment sample that is retained on a 0.45 µm membrane filter. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to determine when the results should be reported as "suspended, total."

Determinations of "suspended, total" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) *dissolved* and (2) *total* concentrations of the constituent.

Total the total amount of a given constituent in a representative water-suspended sediment sample, regardless of the constituent's physical or chemical form. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent present in both the dissolved and suspended phases of the sample. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total." (Note that the word "total" does double duty here, indicating both that the sample consists of a water-suspended sediment mixture and that the analytical method determines all of the constituent in the sample.)

Total, recoverable the ammount of a given constituent that is in solution after a representative water-suspended sediment sample has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all particulate matter is not achieved by the digestion treatment, and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the dissolved and suspended phases of the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Total sediment discharge (tons/day) is the sum of the suspended-sediment discharge and the bed-load discharge. It is the total quantity of sediment, as measured by dry weight or volume, that passes a section during a given time.

Mean concentration is the time-weighted concentration of suspended sediment passing a stream section during a 24-hour day.

Sodium-adsorption-ratio (SAR) is the expression of relative activity of sodium ions in exchange reaction with soil and is an index of sodium or alkali hazard to the soil. This ratio should be known especially for water used for irrigating farmland.

Solute is any substance derived from the atmosphere, vegetation, soil, or rocks that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current. It is expressed in micromhos per centimeter at 25°C. Specific conductance is related to the type and concentration of ions in solution and can be used for approximating the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is about 65 percent of the specific conductance (in micromhos). This relation is not constant from stream to stream, and it may vary in the same source with changes in the composition of the water.

Stage-discharge relation is the relation between gage height (stage) and volume of water per unit of time, flowing in a channel.

Streamflow is the discharge that occurs in a natural channel. Although the term "discharge" can be applied to the flow of a canal, the word "streamflow" uniquely describes the discharge in a surface stream course. The term "streamflow" is more general than "runoff" as streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Substrate is the physical surface upon which an organism lived.

Natural substrates refers to any naturally occurring emersed or submersed solid surface, such as a rock or tree, upon which an organism lived.

Artificial substrate is a device which is purposely placed in a stream or lake for colonization of organisms. The artificial substrate simplifies the community structure by standardizing the substrate from which each sample is taken. Examples of artificial substrates are basket samplers (made of wire cages filled with clean streamside rocks) and multi-plate samplers (made of hardboard) for benthic organism collection, and plexiglass strips for periphyton collection.

Surface area of a lake is that area outlined on the latest U.S.G.S. topographic map as the boundary of the lake and measured by a planimeter in acres. In localities not covered by topographic maps, the areas are computed from the best maps available at the time planimetered. All areas shown are those for the stage when the planimetered map was made.

Surficial bed material is that part (0.1 to 0.2 ft) of the bed material that is sampled using U.S. Series Bed-Material Samplers.

Suspended (as used in tables of chemical analyses) refers to the amount (concentration) of the total concentration in a water-sediment mixture. The water-sediment mixture is associated with (or sorbed on) that material retained on a 0.45 micrometer filter.

Taxonomy is the division of biology concerned with the classification and naming of organisms. The classification of organisms is based upon a hierarchical scheme beginning with Kingdom and ending with Species at the base. The higher the classification level, the fewer features the organisms have in common. For example, the taxonomy of a particular mayfly, *Hexagenia limbata* is the following:

Kingdom	Animal
Phylum	Arthropoda
Class	Insecta
Order	Ephemeroptera
Family	Ephemeridae
Genus	*Hexageria*
Species	*Hexagenia limbata*

Thermograph is an instrument that continuously records variations of temperature on a chart. The more general term "temperature recorder" is used in the table headings and refers to any instrument that records temperature whether on a chart, a tape, or any other medium.

Time-weighted average is computed by multiplying the number of days in the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of water that would be contained in a vessel or reservoir that had received equal quantities of water from the stream each day for the year.

Tons per acre-foot indicates the dry mass of dissolved solids in 1 acre-foot of water. It is computed by multiplying the concentration in milligrams per liter by 0.00136.

Tons per day is the quantity of substance in solution or suspension that passes a stream section during a 24-hour day.

Total load (tons) is the total quantity of any individual constituent, as measured by dry mass or volume, that is dissolved in a specific amount of water (discharge) during a given time. It is computed by multiplying the total discharge, times the mg/L of the constituent, times the factor 0.0027, times the number of days.

Water year in Geological Survey reports dealing with surface-water supply is the 12-month period, October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending September 30, 1978, is called the "1978 water year."

WDR is used as an abbreviation for "Water-Data Report" in the REVISED RECORDS paragraph to refer to State annual basic-data reports (WRD was used as an abbreviation for "Water-Resources Data" in reports published prior to 1976).

Weighted average is used in this report to indicate discharge-weighted average. It is computed by multiplying the discharge for a sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the sum of the discharges. A discharge-weighted average approximates the composition of water that would be found in a reservoir containing all the water passing a given location during the water year after thorough mixing in the reservoir.

WSP is used as an abbreviation for "Water-Supply Paper" in reference to previously published reports.

DOWNSTREAM ORDER AND STATION NUMBER

Since October 1, 1950, the order of listing hydrologic-station records in Survey reports is in a downstream direction along the main stream. All stations on a tributary entering upstream from a main-stream station are listed before that station. A station on a tributary that enters between two main-stream stations is listed between them. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary on which a station is situated with respect to the stream to which it is immediately tributary is indicated by an indention in a list of stations in the front of the report. Each indention represents one rank. This downstream order and system of indention show which stations are on tributaries between any two stations and the rank of the tributary on which each station is situated.

As an added means of identification, each hydrologic station and partial-record station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record stations and other stations; therefore, the station number for a partial-record station indicates downstream-order position in a list made up of both types of stations. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete 8-digit number for each station such as 06630000, which appears just to the left of the station name, includes the 2-digit part number "06" plus the 6-digit downstream order number "630000".

NUMBERING SYSTEM FOR WELLS AND MISCELLANEOUS SITES

The 8-digit downstream order station numbers are not assigned to wells and miscellaneous sites where only random water-quality samples or discharge measurements are taken.

The well and miscellaneous site numbering system of the U.S. Geological Survey is based on the grid system of latitude and longitude. The system provides the geographic location of the well or miscellaneous site and a unique number for each site. The number consists of 15 digits. The first 6 digits denote the degrees, minutes, and seconds of latitude, the next 7 digits denote degrees, minutes, and seconds of longitude, and the last 2 digits (assigned sequentially) identify the wells or other sites within a 1-second grid. See figure 1 below.

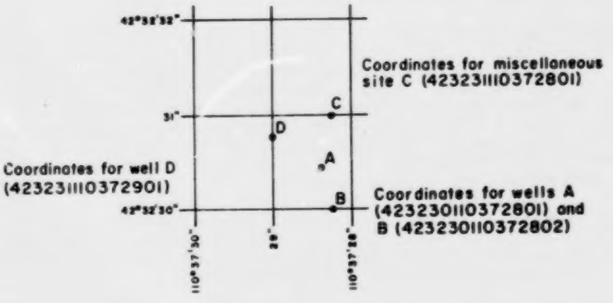
42°32'32"
Coordinates for miscellaneous site C (42323111037280l)
C
31"
D
A
Coordinates for well D (423231110372901)
B
Coordinates for wells A (423230110372801) and B (423230110372802)
42°32'30"
110°37'30"
29"
110°37'28"

Figure 1.—System for numbering wells and miscellaneous sites (latitude and longitude).

In order to compare data for wells in other publications, such as the county ground-water studies, the wells in this report are also numbered according to a system based on the location in the public land classification of the U.S. Bureau of Land Management. The system is illustrated in figure 2. The first numeral denotes the township north of a base line, the second numeral denotes the range west of the fifth principal meridian, and the third numeral denotes the section in which the well is located. The letters A, B, C, and D designate, respectively, the northeast, northwest, southwest, and southeast quarter section, quarter-quarter section, and quarter-quarter-quarter section (10-acre or 4-hectare tract). For example, well 26N-063W-32CDA is in the NE¼SE¼SW¼ sec.32, T.26 N., R.63 W. Consecutive terminal numbers are added if more than one well is recorded within a 10-acre tract.

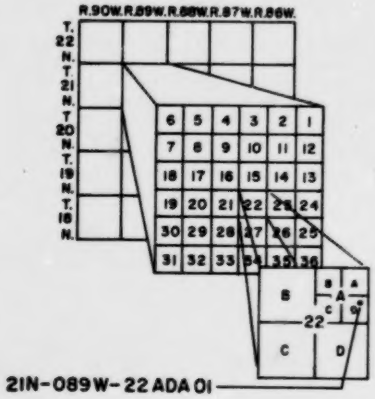

Figure 2.—System for numbering wells and miscellaneous sites (township and range).

SPECIAL NETWORKS AND PROGRAMS

Hydrologic bench-mark station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a bench-mark station may be used to separate effects of natural from manmade changes in other basins which have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped bench-mark basin.

National stream-quality accounting network (NASQAN) is a data collection network designed by the U.S. Geological Survey to meet many of the information demands of agencies or groups involved in national or regional water-quality planning and management. Both accounting and broad-scale monitoring objectives have been incorporated into the network design. Areal configuration of the network is based on river-basin accounting units (identified by 8-digit hydrologic-unit numbers) designated by the Office of Water Data Coordination in consultation with the Water Resources Council. Primary objectives of the network are (1) to depict areal variability of streamflow and water-quality conditions nationwide on a year-by-year basis and (2) to detect and assess long-term changes in streamflow and stream quality.

Pesticide program is a network of regularly sampled water-quality stations where samples are collected to determine the concentration and distribution of pesticides in streams where potential contamination could result from the application of the commonly used insecticides and herbicides. Operation of the network is a Federal interagency activity.

Radiochemical program is a network of regularly sampled water-quality stations where samples are collected to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

Tritium network is a network of stations which has been established to provide baseline information on the occurrence of tritium in the Nation's surface waters. In addition to the surface-water stations in the network, tritium data are also obtained at a number of precipitation stations. The purpose of the precipitation stations is to provide an estimate sufficient for hydrologic studies of the tritium input to the United States.

EXPLANATION OF STAGE AND WATER-DISCHARGE RECORDS

Collection and computation of data

The base data collected at gaging stations consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and contents of lakes or reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from either direct readings on a nonrecording gage or from a water-stage recorder that gives either a continuous graph of the fluctuations or a tape punched at selected time intervals. Measurements of discharge are made with a current meter, using the general methods adopted by the Geological Survey. These methods are described in standard text-books, in Water-Supply Paper 888, and in U.S. Geological Survey Techniques of Water Resources Investigations, book 3, chapter A6.

For stream-gaging stations, rating tables giving the discharge for any stage are prepared from stage-discharge relation curves. If extensions to the rating curves are necessary to express discharge greater than measured, they are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, computation of flow over dams or or weirs), step-backwater techniques, velocity-area studies, and logarithmic plotting. The daily mean discharge is computed from gage heights and rating tables, then the monthly and yearly mean discharge are computed from the daily figures. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is computed by the shifting-control method, in which correction factors based on individual discharge measurements and notes by engineers and observers are used in applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the control, the daily mean discharge is computed by what is basically the shifting-control method.

At some stream-gaging stations the stage-discharge relation is affected by the backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in computing discharge. The slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At some stations the stage-discharge relation is affected by changing stage; at these stations the rate of change in stage is used as a factor in computing discharge.

At some northern stream-gaging stations the stage-discharge relation is affected by ice in the winter, and it becomes impossible to compute the discharge in the usual manner. Discharge for periods of ice effect is computed on the basis of gage-height record and occasional winter discharge measurements. Consideration is given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge for other stations in the same or nearby basins.

For a lake or reservoir station, capacity tables giving the contents for any stage are prepared from stage-area relation curves defined by surveys. The application of the stage to the capacity table gives the contents, from which the daily, monthly, or yearly change in contents is computed.

If the stage-capacity curve is subject to changes because of deposition of sediment in the reservoir, periodic resurveys of the reservoir are necessary to define new stage-capacity curves. During the period between reservoir surveys the computed contents may be increasingly in error due to the gradual accumulation of sediment.

For some gaging stations there are periods when no gage-height record is obtained or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods the daily discharges are estimated on the basis of recorded range in stage, prior and subsequent records, discharge measurements, weather records, and comparison with records for other stations in the same or nearby basins. Likewise daily contents may be estimated on the basis of operator's log, prior and subsequent records, inflow-outflow studies, and other information.

The data in this report generally comprise a description of the station and tabulations of daily and monthly figures. For gaging stations on streams or canals a table showing the daily discharge and monthly and yearly discharge is given. For gaging stations on lakes and reservoirs a monthly summary table of stage and contents or a table showing the daily contents is given. Tables of daily mean gage heights are included for some streamflow stations and for some reservoir stations. Records are published for the water year, which begins on October 1 and ends on September 30.

The description of the gaging station gives the location, drainage area, period of record, notations of revisions of previously published records, type and history of gages, general remarks, average discharge, and extremes of discharge or contents. The location of the gaging station and the drainage area are obtained from the most accurate maps available. River mileage, given under "LOCATION" for some stations, is that determined and used by the Corps of Engineers or other agencies. Periods for which there are published records for the present station or for stations generally equivalent to the present one are given under "PERIOD OF RECORD."

Previously published streamflow records of some stations have been found to be in error on the basis of data or information later obtained. Revisions of such records are usually published along with the current records in one of the annual or compilation reports. In order to make it easier to find such revised records, a paragraph headed "REVISED RECORDS" has been added to the description of all stations for which revised records have been published. Listed therein are all the reports in which revisions have been published, each followed by the water years for which figures are revised in that report. In listing the water years only one number is given; for instance, 1965 stands for the water year October 1, 1964, to September 30, 1965. If no daily, monthly, or annual figures of discharge are affected by the revision, the fact is brought out by notations after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the revised figure was first published is given. It should be noted that for all stations for which cubic feet per second per square mile and runoff in inches are published, a revision of the drainage area necessitates corresponding revision of all figures based on the drainage area. Revised figures of cubic feet per second per square mile and runoff in inches resulting from a revision of the drainage area only are usually not published in the annual series of reports.

The type of gage currently in use, the datum of the present gage referred to National Geodetic Vertical Datum, and condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." National Geodetic Vertical Datum is explained in "DEFINITION OF TERMS".

Information pertaining to the accuracy of the discharge records and to conditions which affect the natural flow of the gaging station is given under "REMARKS." For reservoir stations information on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir is given under "REMARKS."

The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE"; it is not given for stations having fewer than 5 complete years of record or for stations where changes in water development during the period of record cause the figure to have little significance. In addition, the median of yearly mean discharges is given for stream-gaging stations having 10 or more complete years of record if the median differs from the average by more than 10 percent. Under "EXTREMES" are given first, the extremes for the period of record, second, information available outside the period of record, and last, those for the current year. Unless otherwise qualified, the maximum discharge (or contents) is the instantaneous maximum corresponding to the crest stage obtained by use of a water-stage recorder (graphic or digital), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur on the same day as the maximum discharge (or contents), it is given separately. Similarly, the minimum is the instantaneous minimum unless otherwise qualified. For some stations peak discharges are listed with EXTREMES FOR THE CURRENT YEAR; if they are, all independent peaks, including the maximum for the year, above the selected base with the time of occurrence and corresponding gage heights are published in tabular format. The base discharge, which is given in the table heading, is selected so that an average of about three peaks a year will be presented. Peak discharges are not published for any canals, ditches, drains, or for any stream for which the peaks are subject to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030, 1:30 p.m. is 1330. The minimums for these stations are published in a separate paragraph following the table of peaks.

The daily table for stream-gaging stations gives the mean discharge for each day and is followed by monthly and yearly summaries. In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month also may be expressed in cubic feet per second per square mile (line headed "CFSM"), or in inches (line headed "IN"), or in acre-feet (line headed "AC-FT"). Figures for cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion, if the drainage area includes large noncontributing areas, or if the average annual rainfall over the drainage basin is usually less than 20 inches. In the yearly summary below the monthly summary, the figures shown are the appropriate daily discharges for the calendar and water years.

Footnotes to the table of daily discharge are introduced by the word "NOTE." Footnotes are used to indicate periods for which the discharge is computed or estimated by special methods because of no gage-height record, backwater from various sources, or other unusual conditions. Periods of no gage-height record are indicated if the period is continuous for a month or more or includes the maximum discharge for the year. Periods of backwater from an unusual source, of indefinite stage-relation, or of any other unusual condition at the gage site are indicated only if they are a month or more in length and the accuracy of the records is affected. Days on which the stage-discharge relation is affected by ice are not indicated. The methods used in computing discharge for various unusual conditions have been explained in preceding paragraphs.

For most gaging stations on lakes and reservoirs the data presented comprise a description of the station and a monthly summary table of stage and contents. For some reservoirs a table showing daily contents or stage is given. A skeleton table of capacity at given stages is published for all reservoirs for which records are published on a daily basis, but is not published for reservoirs for which only monthly data are given.

Data collected at partial-record stations follow the information for continuous record sites. Data for partial-record discharge stations are presented in two tables. The first is a table of discharge measurements at low-flow partial-record stations, and the second is a table of annual maximum stage and discharge at crest-stage stations. The tables of partial-record stations are followed by a listing of discharge measurements made at sites other than continuous-record or partial-record stations. Occasionally, a series of discharge measurements are made within a short time period to investigate the seepage gains or losses along a reach of a stream or to determine the low-flow characteristics of an area. Such measurements are also given in special tables following the tables of partial-record stations.

Accuracy of field data and computed results

The accuracy of streamflow data depends primarily on (1) the stability of the stage-discharge relation or, if the control is unstable, the frequency of discharge measurements, and (2) the accuracy of observations of stage, measurements of discharge, and interpretations of records.

The station description under "REMARKS" states the degree of accuracy of the records. "Excellent" means that about 95 percent of the daily discharges are within 5 percent; "good", within 10 percent; and "fair" within 15 percent. "Poor" means that daily discharges have less than "fair" accuracy.

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 cfs; to tenths between 1.0 and 10 cfs; to whole numbers between 10 and 1,000 cfs; and to 3 significant figures above 1,000 cfs. The number of significant figures used is based solely on the magnitude of the figure. The same rounding rules apply to discharge figures listed for partial-record stations.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes, or to other factors. For such stations, figures of cubic feet per second per square mile and of runoff in inches are not published unless satisfactory adjustments can be made for diversions, for changes in contents of reservoirs, or for other changes incident to use and control. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or losses are large in comparison with the observed discharge.

Other data available

Information of a more detailed nature than that published for most of the gaging stations such as observations of water temperatures, discharge measurements, gage-height records, and rating tables is on file in the district office. Also most gaging-station records are available in computer-usable form and many statistical analyses have been made.

Information on the availability of unpublished data or statistical analyses may be obtained from the district office.

Records of discharge collected by agencies other than the Geological Survey

The National Water Data Exchange, Water Resources Division, U.S. Geological Survey, National Center, Reston, VA 22092, maintains an index of such sites. Information on records available at specific sites can be obtained upon request.

EXPLANATION OF WATER-QUALITY RECORDS

Collection and examination of data

Surface water samples for analyses usually are collected at or near gaging stations. The quality-of-water records are given immediately following the discharge records at these stations.

The descriptive heading for water-quality records gives the period of record for all water-quality data; the period of daily record for parameters that are measured on a daily basis (specific conductance, pH, dissolved oxygen, water temperature, sediment discharge, etc.); extremes for the period of daily record; extremes for the current year; and general remarks.

For ground-water records, no descriptive statements are given; however, the well number, depth of well, date of sampling and/or other pertinent data are given in the table containing the chemical analyses of the ground water.

Water analysis

Most methods for collecting and analyzing water samples are described in the U.S. Geological Survey Techniques of Water-Resources Investigations listed on the following page.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load.

Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between a reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

For chemical-quality stations equipped with digital monitors, the records consist of daily maximum, minimum, and mean values for each constituent measured and are based upon hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record. More detailed records (hourly values) may be obtained from the district office.

Water temperature

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at time of discharge measurements for water-discharge stations. For stations where water temperatures are taken manually once or twice daily, the water temperatures are taken at about the same time each day. Large streams have a small daily temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

At stations where recording instruments are used, either mean temperatures or maximum and minimum temperatures for each day are published.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross sections.

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided day method. For periods when no samples were collected, daily loads of suspended sediment were estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

At other stations, suspended-sediment samples were collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observations, such data are useful in establishing seasonal relations between quality and streamflow in predicting long-term sediment-discharge characteristics of the stream.

In addition to the records of quantities of suspended sediment, records for the periodic measurements of the particle-size distribution of the suspended sediment and bed material are included.

EXPLANATION OF GROUND-WATER LEVEL RECORDS

Collection of the data

Only ground-water level data from a basic network of observation wells are published herein. This basic network contains observation wells so located that the most significant data are obtained from the fewest wells in the most important aquifers.

Each well is identified by means of (1) a 15-digit number that is based on latitude and longitude and (2) a local number that is provided for local needs. See figures 1 and 2.

Measurements are made in many types of wells, under varying conditions of access and at different temperatures, hence, neither the method of meansurement nor the equipment can be standardized. At each observation well, however, the equipment and techniques used are those that will ensure that measurements at each well are consistent.

Water-level measurements in this report are given in feet with reference to either National Geodetic Vertical Datum of 1929 or land-surface datum (lsd). National Geodetic Vertical Datum of 1929 is explained in the Definition of Terms paragraph. Land-surface datum is a datum plane that is approximately at land surface at each well. If known, the altitude of the land-surface datum above National Geodetic Vertical Datum of 1929 is given in the well description. The height of the measuring point (MP) above or below land-surface datum is given in each well description. Water levels in wells equipped with recording gages are reported for every fifth day and the end of each month (eom).

Water levels are reported to as many significant figures as can be justified by the local conditions. For example, in a measurement of a depth to water of several hundred feet, the error in determining the absolute value of the total depth to water may be a few tenths of a foot, whereas the error in determining the net change of water level between successive measurements may be only a hundredth or a few hundredths of a foot. For lesser depths to water the accuracy is greater. Accordingly, most measurements are reported to a hundredth of a foot, but some are given only to a tenth of a foot or a larger unit.

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

Thirty-four manuals by the U.S. Geological Survey have been published to date in the series on techniques describing procedures for planning and executing specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, Section A of Book 3 (Applications of Hydraulics) is on surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises. The reports listed below are for sale by the U.S. Geological Survey, Branch of Distribution, 1200 South Eads Street, Arlington, VA 22202 (authorized agent of the Superintendent of Documents, Government Printing Office. Prices are effective January 1978 but are subject to change.

NOTE: When ordering any of these publications, please give the title, book number, chapter number, and "U.S. Geological Survey Techniques of Water-Resources Investigations".

1-D1. *Water temperature-influential factors, field measurement, and data presentation*, by H. H. Stevens Jr., J. F. Ficke, and G. F. Smoot: USGS--TWRI Book 1, Chapter D1. 1975. 65 pages. $1.60.

1-D2. *Guidelines for collection and field analysis of ground-water samples for selected unstable constituents*, by W.W.Wood: USGS--TWRI Book 1, Chapter D2. 1976. 24 pages. $0.85

2-D1. *Application of surface geophysics to ground-water investigations*, by A. A. R. Zohdy, G. P. Eaton, and D. R. Mabey: USGS--TWRI Book 2, Chapter D1. 1974. 116 pages. $1.90.

2-E1. *Application of borehole geophysics to water-resources investigations*, by W. S. Keys and L. M. MacCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 pages. $1.75.

3-A1. *General field and office procedures for indirect discharge measurements*, by M. A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages. $1.00.

3-A2. *Measurement of peak discharge by the slope-area method*, by Tate Dalrymple and M. A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages. $0.35.

3-A3. *Measurement of peak discharge at culverts by indirect methods*, by G. L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages. $0.40.

3-A4. *Measurement of peak discharge at width contractions by indirect methods*, by H. F. Matthai: USGS--TWRI Book 3, Chapter A4. 1967. 44 pages. $1.00.

3-A5. *Measurement of peak discharge at dams by indirect methods*, by Harry Hulsing: USGS--TWRI Book 3, Chapter A5. 1967. 29 pages. $0.35.

3-A6. *General procedure for gaging streams*, by R. W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6, 1968, 13 pages. $1.00.

3-A7. *Stage measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages. $1.40.

3-A8. *Discharge measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages. $1.25.

3-A11. *Measurement of discharge by moving-boat method*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 3, Chapter A11. 1969. 22 pages. $1.20.

3-A12. *Fluorometric procedures for dye tracing*, by J. F. Wilson Jr.: USGS--TWRI Book 3, Chapter A12. 1968. 31 pages. $0.35. Not currently available.

3-B1. *Aquifer-test design, observation, and data analysis*, by R. W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages. $0.70.

3-B2. *Introduction to ground-water hydraulics, a programed text for self-instruction*, by G. D. Bennett: USGS--TWRI Book 3, Chapter B2 1976. 172 pages. $2.50.

3-C1. *Fluvial sediment concepts*, by H. P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages. $0.65.

3-C2. *Field methods for measurement of fluvial sediment*, by H. P. Guy and V. W. Norman: USGS--TWRI Book 3, Chapter C2, 1970. 59 pages. $2.50.

3-C3. *Computation of fluvial-sediment discharge*, by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages. $2.10.

4-A1. *Some statistical tools in hydrology*, by H. C. Riggs: USGS--TWRI Book 4 Chapter A1. 1968. 39 pages. $1.60.

4-A2. *Frequency curves*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages. $0.35.

4-B1. *Low-flow investigations*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972, 18 pages. $0.65.

4-B2. *Storage analyses for water supply*, by H. C. Riggs and C. H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages. $0.75.

4-B3. *Regional analyses of streamflow characteristics*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages. $0.65.

4-D1. *Computation of rate and volume of stream depletion by wells*, by C. T. Jenkins: USGS--TWRI Book 4, Chapter D1. 1970. 17 pages. $1.10.

5-A1. *Methods for collection and analysis of water samples for dissolved minerals and gases*, by Eugene Brown, M. W. Skougstad, and M. J. Fishman: USGS--TWRI Book 5, Chapter A1. 1970. 160 pages. $2.40.

5-A2. *Determination of minor elments in water by emission spectroscopy*, by P. R. Barnett and E. C. Mallory, Jr.: USGS--TWRI Book 5, Chapter A2. 1971. 31 pages. $0.80.

5-A3. *Methods for analysis of organic substances in water*, by D. F. Goerlitz and Eugene Brown: USGS--TWRI Book 5, Chapter A3. 1972. 40 pages. $0.90.

5-A4.* *Methods for collection and analysis of aquatic biological and microbiological samples*, edited by P.E. Greeson, T.A. Ehlke, G.A. Irwin, B.W. Lium, and K.V. Slack: USGS--TWRI Book 5, Chapter A4. 1977. 332 pages. $20.00.

5-A5.* *Methods for determination of radioactive substances in water and fluvial sediments*, by L.L. Thatcher, V.J. Janzer, and K.W. Edwards: USGS--TWRI Book 5, Chapter A5. 1977. 95 pages. $16.00.

5-C1. *Laboratory theory and methods for sediment analysis*, by H. P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages. $2.10.

7-C1. *Finite difference model for aquifer simulation in two dimensions with results of numerical experiments*, by P. C. Trescott, G. F. Pinder, and S. P. Larson: USGS--TWRI Book 7, Chapter C1. 1976. 116 pages. $2.30.

8-A1. *Methods of measuring water levels in deep wells*, by M. S. Garber and F. C. Koopman: USGS--TWRI Book 8, Chapter A1. 1968. 23 pages. $0.70.

8-B2. *Calibration and maintenance of vertical-axis type current meters*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 8, Chapter B2. 1968. 15 pages. $1.10.

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*These publications are available ONLY from Superintendent of Documents, Government Printing Office, Washington, D.C. 20402. They are in looseleaf format and are subscription items. Additional supplements will be issued to subscribers at no extra cost. Checks should be made payable to Superintendent of Documents. Requester should emphasize to Superintendent of Documents that this is a subscription item.

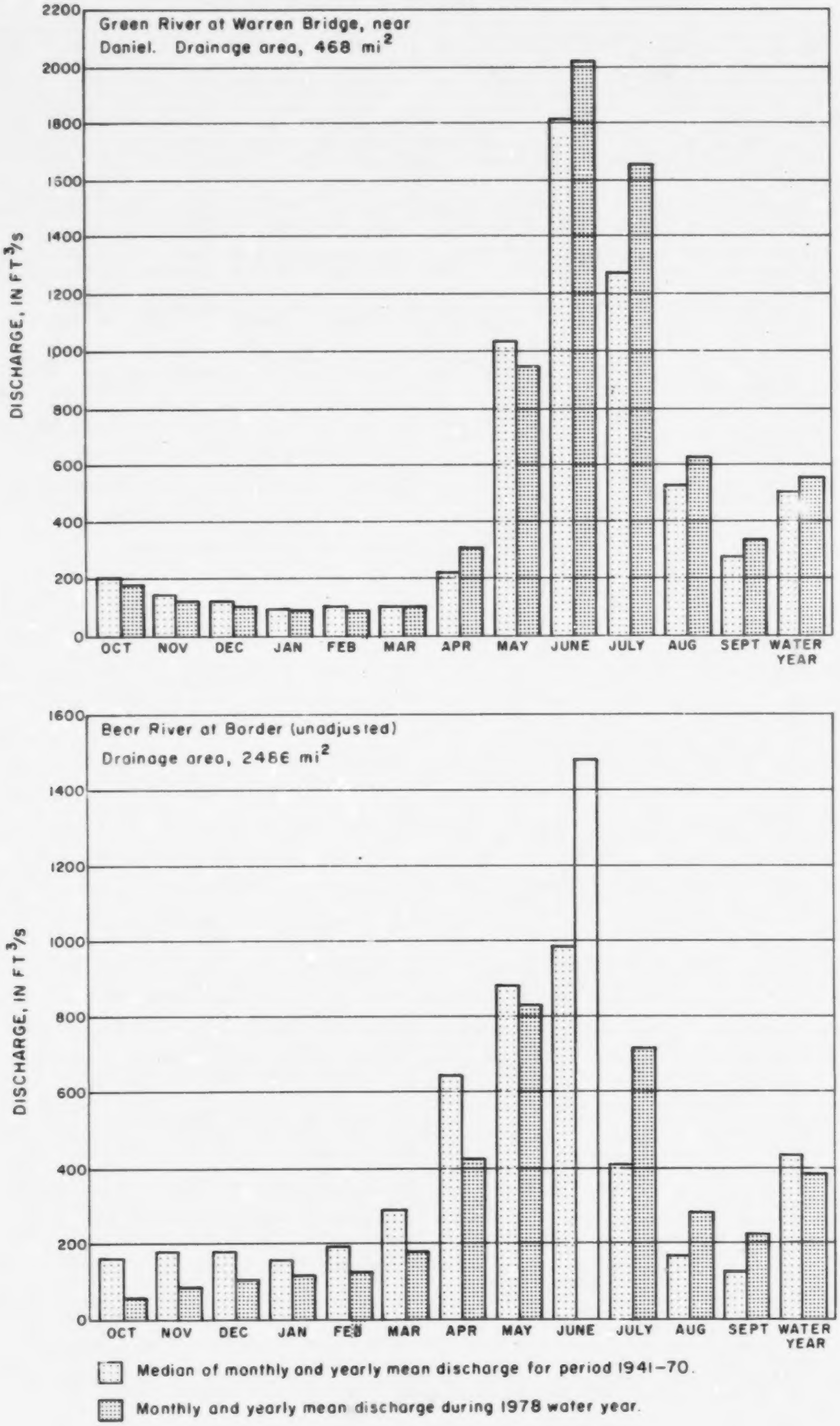

Figure 3.—Discharge during 1978 water year compared with median discharge for period 1941–70 for two representative gaging stations.

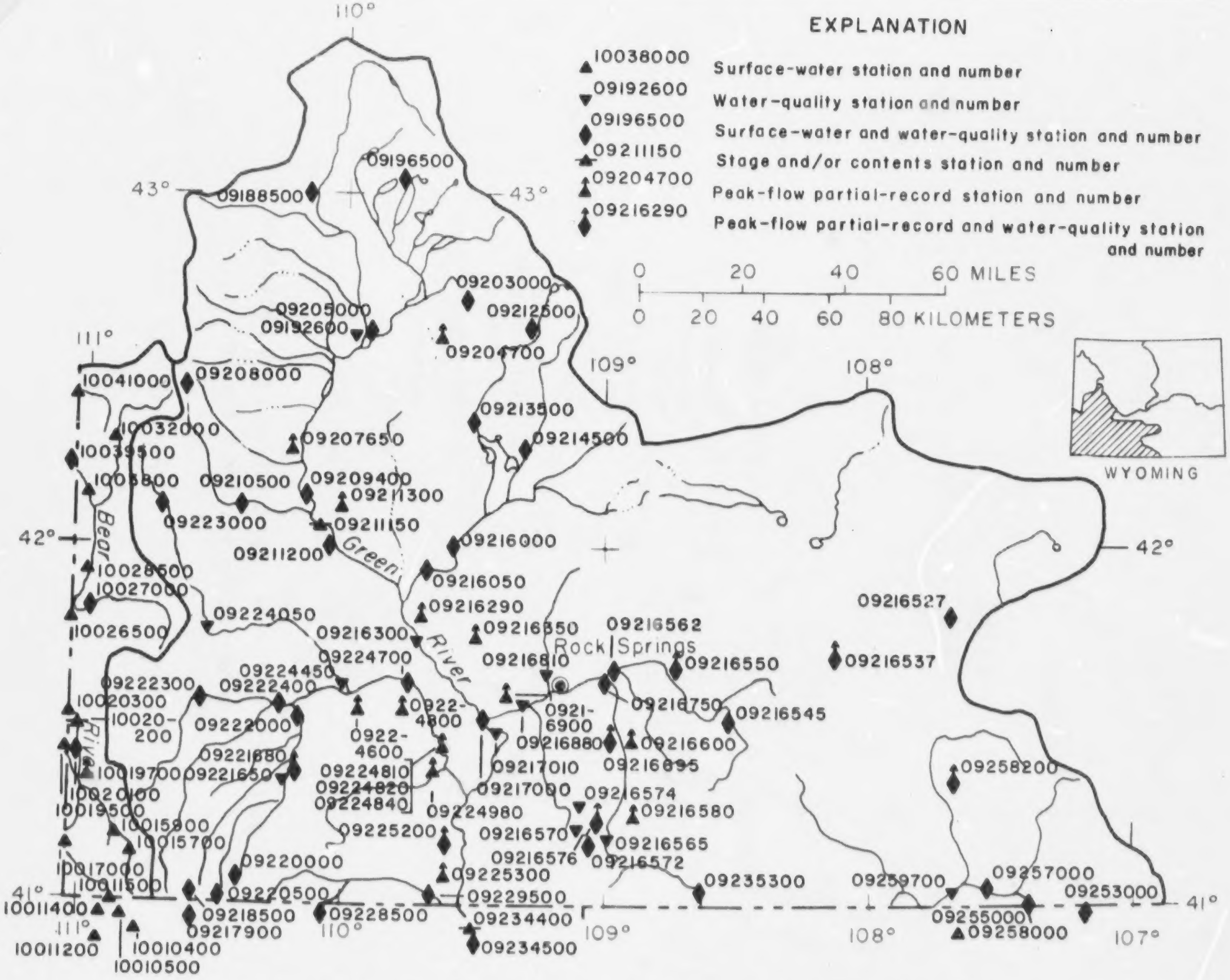

Figure 4.—Location of gaging stations and peak-flow partial-record stations in the Green River and Bear River basins.

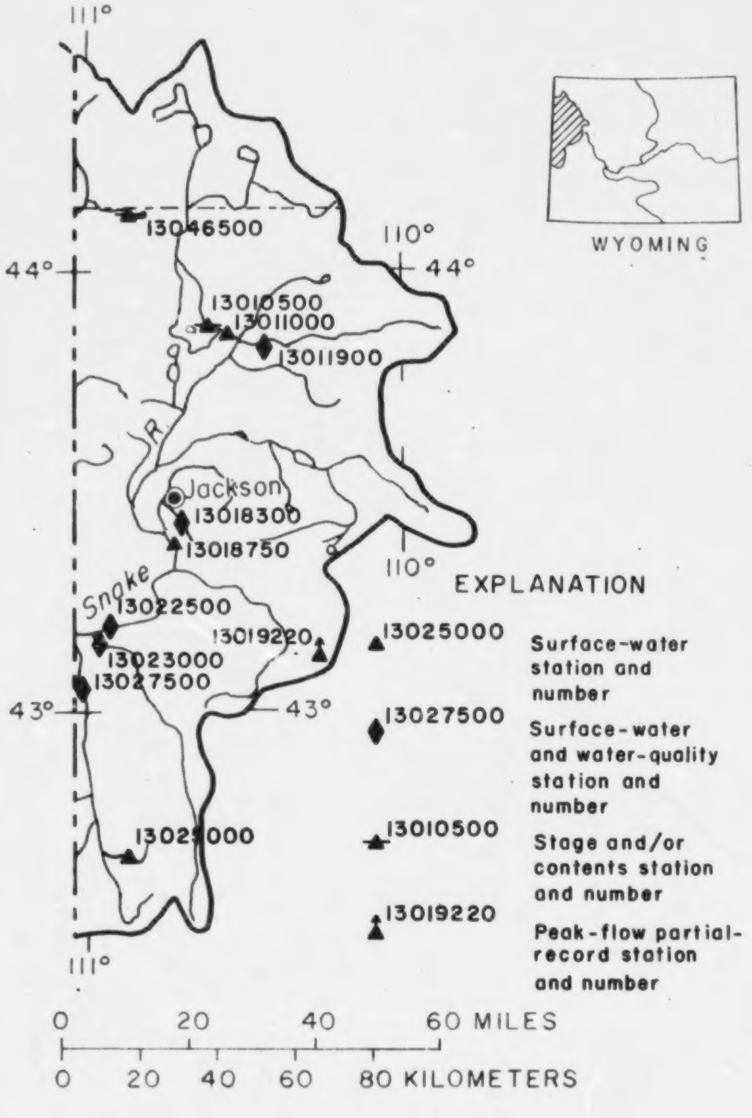

Figure 5.—Location of gaging stations and peak-flow partial-record stations in the Snake River basin.

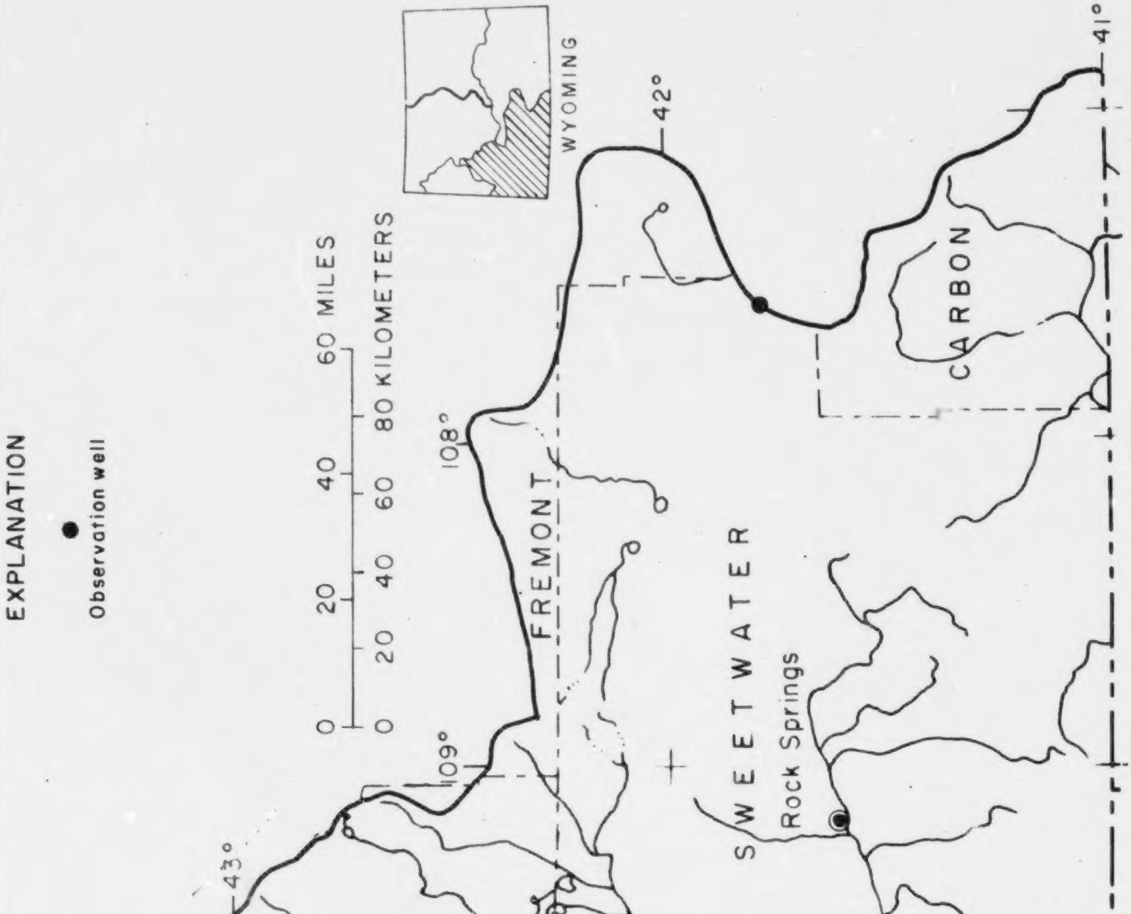

Figure 6.—Location of selected observation wells in the Green River and Bear River basins.

APPENDIX

NUMERIC LISTING

PARM. CODE	NEW TERMINOLOGY -- FIRST LINE OLD TERMINOLOGY -- SECOND LINE
00623	NITROGEN, AMMONIA PLUS ORGANIC, DISSOLVED (MG/L AS N)
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)
00624	NITROGEN, AMMONIA PLUS ORGANIC, SUSPENDED TOTAL (MG/L AS N)
00624	NITROGEN, KJELDAHL, SUSPENDED (MG/L AS N)
00625	NITROGEN, AMMONIA PLUS ORGANIC, TOTAL (MG/L AS N)
00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)
00626	NITROGEN, AMMONIA PLUS ORGANIC, TOTAL IN BOTTOM MATERIAL, DRY WT (MG/KG AS N)
00626	NITROGEN, KJELDAHL, TOTAL IN BOTTOM MATERIAL, DRY WT (MG/KG AS N)
00683	CARBON, ORGANIC, SUSPENDED TOTAL (MG/L AS C)
00683	CARBON, ORGANIC, SUSPENDED (MG/L AS C)
00688	CARBON, INORGANIC, SUSPENDED TOTAL (MG/L AS C)
00688	CARBON, INORGANIC, SUSPENDED (MG/L AS C)
00689	CARBON, ORGANIC, SUSPENDED TOTAL (MG/L AS C)
00689	CARBON, ORGANIC, SUSPENDED (MG/L AS C)
00694	CARBON, INORGANIC PLUS ORGANIC, SUSPENDED TOTAL (MG/L AS C)
00694	CARBON, INORGANIC PLUS ORGANIC, SUSPENDED (MG/L AS C)
00916	CALCIUM, TOTAL RECOVERABLE (MG/L AS CA)
00916	CALCIUM, TOTAL (MG/L AS CA)
00926	MAGNESIUM, SUSPENDED RECOVERABLE (MG/L AS MG)
00926	MAGNESIUM, SUSPENDED (MG/L AS MG)
00927	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG)
00927	MAGNESIUM, TOTAL (MG/L AS MG)
01001	ARSENIC, SUSPENDED TOTAL (UG/L AS AS)
01001	ARSENIC, SUSPENDED (UG/L AS AS)
01006	BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)
01006	BARIUM, SUSPENDED (UG/L AS BA)
01007	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)
01007	BARIUM, TOTAL (UG/L AS BA)
01008	BARIUM, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS BA)
01008	BARIUM, TOTAL IN BOTTOM MATERIAL (UG/G AS BA)
01011	BERYLLIUM, SUSPENDED RECOVERABLE (UG/L AS BE)
01011	BERYLLIUM, SUSPENDED (UG/L AS BE)
01012	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)
01012	BERYLLIUM, TOTAL (UG/L AS BE)
01013	BERYLLIUM, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS BE)
01013	BERYLLIUM, TOTAL IN BOTTOM MATERIAL (UG/G AS BE)
01016	BISMUTH, SUSPENDED TOTAL (UG/L AS BI)
01016	BISMUTH, SUSPENDED (UG/L AS BI)
01021	BORON, SUSPENDED RECOVERABLE (UG/L AS B)
01021	BORON, SUSPENDED (UG/L AS B)
01022	BORON, TOTAL RECOVERABLE (UG/L AS B)
01022	BORON, TOTAL (UG/L AS B)
01023	BORON, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS B)
01023	BORON, TOTAL IN BOTTOM MATERIAL (UG/G AS B)
01026	CADMIUM, SUSPENDED RECOVERABLE (UG/L AS CD)
01026	CADMIUM, SUSPENDED (UG/L AS CD)
01027	CADMIUM, TOTAL RECOVERABLE (UG/L AS CD)
01027	CADMIUM, TOTAL (UG/L AS CD)
01028	CADMIUM, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS CD)
01028	CADMIUM, TOTAL IN BOTTOM MATERIAL (UG/G AS CD)

TABLE OF REVISED WATER-QUALITY PARAMETER CODES--Continued

NUMERIC LISTING--Continued

PARM. CODE	NEW TERMINOLOGY -- FIRST LINE OLD TERMINOLOGY -- SECOND LINE
01029	CHROMIUM, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS CR)
01029	CHROMIUM, TOTAL IN BOTTOM MATERIAL (UG/G AS CR)
01031	CHROMIUM, SUSPENDED RECOVERABLE (UG/L AS CR)
01031	CHROMIUM, SUSPENDED (UG/L AS CR)
01034	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)
01034	CHROMIUM, TOTAL (UG/L AS CR)
01036	COBALT, SUSPENDED RECOVERABLE (UG/L AS CO)
01036	COBALT, SUSPENDED (UG/L AS CO)
01037	COBALT, TOTAL RECOVERABLE (UG/L AS CO)
01037	COBALT, TOTAL (UG/L AS CO)
01038	COBALT, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS CO)
01038	COBALT, TOTAL IN BOTTOM MATERIAL (UG/G AS CO)
01041	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU)
01041	COPPER, SUSPENDED (UG/L AS CU)
01042	COPPER, TOTAL RECOVERABLE (UG/L AS CU)
01042	COPPER, TOTAL (UG/L AS CU)
01043	COPPER, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS CU)
01043	COPPER, TOTAL IN BOTTOM MATERIAL (UG/G AS CU)
01044	IRON, SUSPENDED RECOVERABLE (UG/L AS FE)
01044	IRON, SUSPENDED (UG/L AS FE)
01045	IRON, TOTAL RECOVERABLE (UG/L AS FE)
01045	IRON, TOTAL (UG/L AS FE)
01050	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)
01050	LEAD, SUSPENDED (UG/L AS PB)
01051	LEAD, TOTAL RECOVERABLE (UG/L AS PB)
01051	LEAD, TOTAL (UG/L AS PB)
01052	LEAD, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS PB)
01052	LEAD, TOTAL IN BOTTOM MATERIAL (UG/G AS PB)
01053	MANGANESE, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS MN)
01053	MANGANESE, TOTAL IN BOTTOM MATERIAL (UG/G AS MN)
01054	MANGANESE, SUSPENDED RECOVERABLE (UG/L AS MN)
01054	MANGANESE, SUSPENDED (UG/L AS MN)
01055	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)
01055	MANGANESE, TOTAL (UG/L AS MN)
01061	MOLYBDENUM, SUSPENDED RECOVERABLE (UG/L AS MO)
01061	MOLYBDENUM, SUSPENDED (UG/L AS MO)
01062	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)
01062	MOLYBDENUM, TOTAL (UG/L AS MO)
01063	MOLYBDENUM, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS MO)
01063	MOLYBDENUM, TOTAL IN BOTTOM MATERIAL (UG/G AS MO)
01066	NICKEL, SUSPENDED RECOVERABLE (UG/L AS NI)
01066	NICKEL, SUSPENDED (UG/L AS NI)
01067	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)
01067	NICKEL, TOTAL (UG/L AS NI)
01068	NICKEL, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS NI)
01068	NICKEL, TOTAL IN BOTTOM MATERIAL (UG/G AS NI)
01076	SILVER, SUSPENDED RECOVERABLE (UG/L AS AG)
01076	SILVER, SUSPENDED (UG/L AS AG)
01077	SILVER, TOTAL RECOVERABLE (UG/L AS AG)
01077	SILVER, TOTAL (UG/L AS AG)
01078	SILVER, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS AG)
01078	SILVER, TOTAL IN BOTTOM MATERIAL (UG/G AS AG)

NUMERIC LISTING--Continued

PARM. CODE	NEW TERMINOLOGY -- FIRST LINE OLD TERMINOLOGY -- SECOND LINE
01081	STRONTIUM, SUSPENDED RECOVERABLE (UG/L AS SR)
01081	STRONTIUM, SUSPENDED (UG/L AS SR)
01082	STRONTIUM, TOTAL RECOVERABLE (UG/L AS SR)
01082	STRONTIUM, TOTAL (UG/L AS SR)
01083	STRONTIUM, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS SR)
01083	STRONTIUM, TOTAL IN BOTTOM MATERIAL (UG/G AS SR)
01086	VANADIUM, SUSPENDED TOTAL (UG/L AS V)
01086	VANADIUM, SUSPENDED (UG/L AS V)
01091	ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN)
01091	ZINC, SUSPENDED (UG/L AS ZN)
01092	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)
01092	ZINC, TOTAL (UG/L AS ZN)
01093	ZINC, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS ZN)
01093	ZINC, TOTAL IN BOTTOM MATERIAL (UG/G AS ZN)
01096	ANTIMONY, SUSPENDED TOTAL (UG/L AS SB)
01096	ANTIMONY, SUSPENDED (UG/L AS SB)
01101	TIN, SUSPENDED RECOVERABLE (UG/L AS SN)
01101	TIN, SUSPENDED (UG/L AS SN)
01102	TIN, TOTAL RECOVERABLE (UG/L AS SN)
01102	TIN, TOTAL (UG/L AS SN)
01105	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)
01105	ALUMINUM, TOTAL (UG/L AS AL)
01107	ALUMINUM, SUSPENDED RECOVERABLE (UG/L AS AL)
01107	ALUMINUM, SUSPENDED (UG/L AS AL)
01108	ALUMINUM, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS AL)
01108	ALUMINUM, TOTAL IN BOTTOM MATERIAL (UG/G AS AL)
01116	CESIUM, SUSPENDED TOTAL (UG/L AS CS)
01116	CESIUM, SUSPENDED (UG/L AS CS)
01121	GALLIUM, SUSPENDED TOTAL (UG/L AS GA)
01121	GALLIUM, SUSPENDED (UG/L AS GA)
01126	GERMANIUM, SUSPENDED TOTAL (UG/L AS GE)
01126	GERMANIUM, SUSPENDED (UG/L AS GE)
01131	LITHIUM, SUSPENDED RECOVERABLE (UG/L AS LI)
01131	LITHIUM, SUSPENDED (UG/L AS LI)
01132	LITHIUM, TOTAL RECOVERABLE (UG/L AS LI)
01132	LITHIUM, TOTAL (UG/L AS LI)
01136	RUBIDIUM, SUSPENDED TOTAL (UG/L AS RB)
01136	RUBIDIUM, SUSPENDED (UG/L AS RB)
01146	SELENIUM, SUSPENDED TOTAL (UG/L AS SE)
01146	SELENIUM, SUSPENDED (UG/L AS SE)
01151	TITANIUM, SUSPENDED TOTAL (UG/L AS TI)
01151	TITANIUM, SUSPENDED (UG/L AS TI)
01161	ZIRCONIUM, SUSPENDED TOTAL (UG/L AS ZR)
01161	ZIRCONIUM, SUSPENDED (UG/L AS ZR)
01170	IRON, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS FE)
01170	IRON, TOTAL IN BOTTOM MATERIAL (UG/G AS FE)
01505	ALPHA, SUSPENDED TOTAL (PCI/L)
01505	ALPHA, SUSPENDED (PCI/L)
01506	ALPHA, SUSPENDED TOTAL, COUNTING ERROR (PCI/L)
01506	ALPHA, SUSPENDED, COUNTING ERROR (PCI/L)
01516	GROSS ALPHA RADIOACTIVITY, SUSPENDED TOTAL (PCI/L AS U NATURAL)
01516	GROSS ALPHA RADIOACTIVITY, SUSPENDED (PCI/L AS U NATURAL)

NUMERIC LISTING--Continued

PARM. CODE	NEW TERMINOLOGY -- FIRST LINE OLD TERMINOLOGY -- SECOND LINE
01517	GROSS ALPHA RADIOACTIVITY, SUSPENDED TOTAL (PCI/G AS U NATURAL)
01517	GROSS ALPHA RADIOACTIVITY, SUSPENDED (PCI/G AS U NATURAL)
01518	GROSS ALPHA RADIOACTIVITY, SUSPENDED TOTAL (UG/G AS U NATURAL)
01518	GROSS ALPHA RADIOACTIVITY, SUSPENDED (UG/G AS U NATURAL)
03505	BETA, SUSPENDED TOTAL (PCI/L)
03505	BETA, SUSPENDED (PCI/L)
03506	BETA, SUSPENDED TOTAL, COUNTING ERROR (PCI/L)
03506	BETA, SUSPENDED, COUNTING ERROR (PCI/L)
03516	GROSS BETA RADIOACTIVITY, SUSPENDED TOTAL (PCI/L AS CS-137)
03516	GROSS BETA RADIOACTIVITY, SUSPENDED (PCI/L AS CS-137)
03517	GROSS BETA RADIOACTIVITY, SUSPENDED TOTAL (PCI/G AS SR/YT-90)
03517	GROSS BETA RADIOACTIVITY, SUSPENDED (PCI/G AS SR/YT-90)
03518	GROSS BETA RADIOACTIVITY, SUSPENDED TOTAL (PCI/G AS CS-137)
03518	GROSS BETA RADIOACTIVITY, SUSPENDED (PCI/G AS CS-137)
07010	TRITIUM, SUSPENDED TOTAL (PCI/L)
07010	TRITIUM, SUSPENDED (PCI/L)
07011	TRITIUM, SUSPENDED TOTAL, COUNTING ERROR (PCI/L)
07011	TRITIUM, SUSPENDED, COUNTING ERROR (PCI/L)
07014	TRITIUM, SUSPENDED TOTAL, COUNTING ERROR (TRITIUM UNITS)
07014	TRITIUM, SUSPENDED, COUNTING ERROR (TRITIUM UNITS)
07016	TRITIUM, SUSPENDED TOTAL (TRITIUM UNITS)
07016	TRITIUM, SUSPENDED (TRITIUM UNITS)
07052	CALCIUM 45, SUSPENDED TOTAL (PCI/L)
07052	CALCIUM 45, SUSPENDED (PCI/L)
07053	CALCIUM 45, SUSPENDED TOTAL, COUNTING ERROR (PCI/L)
07053	CALCIUM 45, SUSPENDED, COUNTING ERROR (PCI/L)
07062	IRON 59, SUSPENDED TOTAL (PCI/L)
07062	IRON 59, SUSPENDED (PCI/L)
07063	IRON 59, SUSPENDED TOTAL, COUNTING ERROR (PCI/L)
07063	IRON 59, SUSPENDED, COUNTING ERROR (PCI/L)
07082	RHODAMINE WT, SUSPENDED TOTAL (UG/L)
07082	RHODAMINE WT, SUSPENDED (UG/L)
07102	SELENIUM 75, SUSPENDED TOTAL (PCI/L)
07102	SELENIUM 75, SUSPENDED (PCI/L)
07103	SELENIUM 75, SUSPENDED TOTAL, COUNTING ERROR (PCI/L)
07103	SELENIUM 75, SUSPENDED, COUNTING ERROR (PCI/L)
07122	SILVER 110, SUSPENDED TOTAL (PCI/L)
07122	SILVER 110, SUSPENDED (PCI/L)
07123	SILVER 110, SUSPENDED TOTAL, COUNTING ERROR (PCI/L)
07123	SILVER 110, SUSPENDED, COUNTING ERROR (PCI/L)
07142	SULFUR 35, SUSPENDED TOTAL (PCI/L)
07142	SULFUR 35, SUSPENDED (PCI/L)
07143	SULFUR 35, SUSPENDED TOTAL, COUNTING ERROR (PCI/L)
07143	SULFUR 35, SUSPENDED, COUNTING ERROR (PCI/L)
09505	RADIUM 226, SUSPENDED TOTAL (PCI/L)
09505	RADIUM 226, SUSPENDED (PCI/L)
13505	STRONTIUM 90, SUSPENDED TOTAL (PCI/L)
13505	STRONTIUM 90, SUSPENDED (PCI/L)

NUMERIC LISTING--Continued

PARM. CODE	NEW TERMINOLOGY -- FIRST LINE OLD TERMINOLOGY -- SECOND LINE
13506	STRONTIUM 90, SUSPENDED TOTAL, COUNTING ERROR (PCI/L)
13506	STRONTIUM 90, SUSPENDED, COUNTING ERROR (PCI/L)
22705	URANIUM, NATURAL, SUSPENDED TOTAL (UG/L AS U NATURAL)
22705	URANIUM, NATURAL, SUSPENDED (UG/L AS U NATURAL)
28404	CESIUM 137, SUSPENDED TOTAL (PCI/L)
28404	CESIUM 137, SUSPENDED (PCI/L)
28405	CESIUM 137,SUSPENDED TOTAL, COUNTING ERROR (PCI/L)
28405	CESIUM 137,SUSPENDED, COUNTING ERROR (PCI/L)
28412	CESIUM 134, SUSPENDED TOTAL (PCI/L)
28412	CESIUM 134, SUSPENDED (PCI/L)
28413	CESIUM 134, SUSPENDED TOTAL, COUNTING ERROR (PCI/L)
28413	CESIUM 134, SUSPENDED, COUNTING ERROR (PCI/L)
29633	SCANDIUM 46, SUSPENDED TOTAL (PCI/L)
29633	SCANDIUM 46, SUSPENDED (PCI/L)
29634	SCANDIUM 46, SUSPENDED TOTAL, COUNTING ERROR (PCI/L)
29634	SCANDIUM 46, SUSPENDED, COUNTING ERROR (PCI/L)
39332	ALDRIN, SUSPENDED TOTAL (UG/L)
39332	ALDRIN, SUSPENDED (UG/L)
39342	LINDANE, SUSPENDED TOTAL (UG/L)
39342	LINDANE, SUSPENDED (UG/L)
39353	CHLORDANE, SUSPENDED TOTAL (UG/L)
39353	CHLORDANE, SUSPENDED (UG/L)
39362	DDD, SUSPENDED TOTAL (UG/L)
39362	DDD, SUSPENDED (UG/L)
39367	DDE, SUSPENDED TOTAL (UG/L)
39367	DDE, SUSPENDED (UG/L)
39372	DDT, SUSPENDED TOTAL (UG/L)
39372	DDT, SUSPENDED (UG/L)
39382	DIELDRIN, SUSPENDED TOTAL (UG/L)
39382	DIELDRIN, SUSPENDED (UG/L)
39392	ENDRIN, SUSPENDED TOTAL (UG/L)
39392	ENDRIN, SUSPENDED (UG/L)
39402	TOXAPHENE, SUSPENDED TOTAL (UG/L)
39402	TOXAPHENE, SUSPENDED (UG/L)
39412	HEPTACHLOR, SUSPENDED TOTAL (UG/L)
39412	HEPTACHLOR, SUSPENDED (UG/L)
39422	HEPTACHLOR EPOXIDE, SUSPENDED TOTAL (UG/L)
39422	HEPTACHLOR EPOXIDE, SUSPENDED (UG/L)
39432	ISODRIN, SUSPENDED TOTAL (UG/L)
39432	ISODRIN, SUSPENDED (UG/L)
39502	AROCLOR, SUSPENDED TOTAL, 1248 PCB SERIES (UG/L)
39502	AROCLOR, SUSPENDED, 1248 PCB SERIES (UG/L)
39506	AROCLOR, SUSPENDED TOTAL, 1254 PCB SERIES (UG/L)
39506	AROCLOR, SUSPENDED, 1254 PCB SERIES (UG/L)
39510	AROCLOR, SUSPENDED TOTAL, 1260 PCB SERIES (UG/L)
39510	AROCLOR, SUSPENDED, 1260 PCB SERIES (UG/L)
39518	PCB, SUSPENDED TOTAL (UG/L)
39518	PCB, SUSPENDED (UG/L)
39533	MALATHION, SUSPENDED TOTAL (UG/L)
39533	MALATHION, SUSPENDED (UG/L)
39543	PARATHION, SUSPENDED TOTAL (UG/L)
39543	PARATHION, SUSPENDED (UG/L)
39573	DIAZINON, SUSPENDED TOTAL (UG/L)
39573	DIAZINON, SUSPENDED (UG/L)

TABLE OF REVISED WATER-QUALITY PARAMETER CODES--Continued

NUMERIC LISTING--Continued

PARM. CODE	NEW TERMINOLOGY -- FIRST LINE OLD TERMINOLOGY -- SECOND LINE
39603	METHYL PARATHION, SUSPENDED TOTAL (UG/L)
39603	METHYL PARATHION, SUSPENDED (UG/L)
39733	2,4-D, SUSPENDED TOTAL (UG/L)
39733	2,4-D, SUSPENDED (UG/L)
39743	2,4,5-T, SUSPENDED TOTAL (UG/L)
39743	2,4,5-T, SUSPENDED (UG/L)
39757	MIREX, SUSPENDED TOTAL (UG/L)
39757	MIREX, SUSPENDED (UG/L)
39763	SILVEX, SUSPENDED TOTAL (UG/L)
39763	SILVEX, SUSPENDED (UG/L)
70299	SOLIDS, RESIDUE AT 110 DEG. C, SUSPENDED TOTAL (MG/L)
70299	SOLIDS, RESIDUE AT 110 DEG. C, SUSPENDED (MG/L)
71895	MERCURY, SUSPENDED RECOVERABLE (UG/L AS HG)
71895	MERCURY, SUSPENDED (UG/L AS HG)
71900	MERCURY, TOTAL RECOVERABLE (UG/L AS HG)
71900	MERCURY, TOTAL (UG/L AS HG)
71921	MERCURY, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS HG)
71921	MERCURY, TOTAL IN BOTTOM MATERIAL (UG/G AS HG)
80040	GROSS ALPHA RADIOACTIVITY, SUSPENDED TOTAL (UG/L AS U NATURAL)
80040	GROSS ALPHA RADIOACTIVITY, SUSPENDED (UG/L AS U NATURAL)
80060	GROSS BETA RADIOACTIVITY, SUSPENDED TOTAL (PCI/L AS SR/YT-90)
80060	GROSS BETA RADIOACTIVITY, SUSPENDED (PCI/L AS SR/YT-90)

ALPHABETIC LISTING

PARM. CODE	NEW TERMINOLOGY -- FIRST LINE OLD TERMINOLOGY -- SECOND LINE
39332	ALDRIN, SUSPENDED TOTAL (UG/L)
39332	ALDRIN, SUSPENDED (UG/L)
01505	ALPHA, SUSPENDED TOTAL (PCI/L)
01505	ALPHA, SUSPENDED (PCI/L)
01506	ALPHA, SUSPENDED TOTAL, COUNTING ERROR (PCI/L)
01506	ALPHA, SUSPENDED, COUNTING ERROR (PCI/L)
01105	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)
01105	ALUMINUM, TOTAL (UG/L AS AL)
01107	ALUMINUM, SUSPENDED RECOVERABLE (UG/L AS AL)
01107	ALUMINUM, SUSPENDED (UG/L AS AL)
01108	ALUMINUM, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS AL)
01108	ALUMINUM, TOTAL IN BOTTOM MATERIAL (UG/G AS AL)
01096	ANTIMONY, SUSPENDED TOTAL (UG/L AS SB)
01096	ANTIMONY, SUSPENDED (UG/L AS SB)
39502	AROCLOR, SUSPENDED TOTAL, 1248 PCB SERIES (UG/L)
39502	AROCLOR, SUSPENDED, 1248 PCB SERIES (UG/L)
39506	AROCLOR, SUSPENDED TOTAL, 1254 PCB SERIES (UG/L)
39506	AROCLOR, SUSPENDED, 1254 PCB SERIES (UG/L)
39510	AROCLOR, SUSPENDED TOTAL, 1260 PCB SERIES (UG/L)
39510	AROCLOR, SUSPENDED, 1260 PCB SERIES (UG/L)
01001	ARSENIC, SUSPENDED TOTAL (UG/L AS AS)
01001	ARSENIC, SUSPENDED (UG/L AS AS)
01006	BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)
01006	BARIUM, SUSPENDED (UG/L AS BA)
01007	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)
01007	BARIUM, TOTAL (UG/L AS BA)
01008	BARIUM, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS BA)
01008	BARIUM, TOTAL IN BOTTOM MATERIAL (UG/G AS BA)
01011	BERYLLIUM, SUSPENDED RECOVERABLE (UG/L AS BE)
01011	BERYLLIUM, SUSPENDED (UG/L AS BE)
01012	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)
01012	BERYLLIUM, TOTAL (UG/L AS BE)
01013	BERYLLIUM, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS BE)
01013	BERYLLIUM, TOTAL IN BOTTOM MATERIAL (UG/G AS BE)
03505	BETA, SUSPENDED TOTAL (PCI/L)
03505	BETA, SUSPENDED (PCI/L)
03506	BETA, SUSPENDED TOTAL, COUNTING ERROR (PCI/L)
03506	BETA, SUSPENDED, COUNTING ERROR (PCI/L)
01016	BISMUTH, SUSPENDED TOTAL (UG/L AS BI)
01016	BISMUTH, SUSPENDED (UG/L AS BI)
01021	BORON, SUSPENDED RECOVERABLE (UG/L AS B)
01021	BORON, SUSPENDED (UG/L AS B)
01022	BORON, TOTAL RECOVERABLE (UG/L AS B)
01022	BORON, TOTAL (UG/L AS B)
01023	BORON, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS B)
01023	BORON, TOTAL IN BOTTOM MATERIAL (UG/G AS B)
01026	CADMIUM, SUSPENDED RECOVERABLE (UG/L AS CD)
01026	CADMIUM, SUSPENDED (UG/L AS CD)
01027	CADMIUM, TOTAL RECOVERABLE (UG/L AS CD)
01027	CADMIUM, TOTAL (UG/L AS CD)
01028	CADMIUM, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS CD)
01028	CADMIUM, TOTAL IN BOTTOM MATERIAL (UG/G AS CD)

ALPHABETIC LISTING--Continued

PARM. CODE	NEW TERMINOLOGY -- FIRST LINE OLD TERMINOLOGY -- SECOND LINE
00916	CALCIUM, TOTAL RECOVERABLE (MG/L AS CA)
00916	CALCIUM, TOTAL (MG/L AS CA)
07052	CALCIUM 45, SUSPENDED TOTAL (PCI/L)
07052	CALCIUM 45, SUSPENDED (PCI/L)
07053	CALCIUM 45, SUSPENDED TOTAL, COUNTING ERROR (PCI/L)
07053	CALCIUM 45, SUSPENDED, COUNTING ERROR (PCI/L)
00683	CARBON, ORGANIC, SUSPENDED TOTAL (MG/L AS C)
00683	CARBON, ORGANIC, SUSPENDED (MG/L AS C)
00688	CARBON, INORGANIC, SUSPENDED TOTAL (MG/L AS C)
00688	CARBON, INORGANIC, SUSPENDED (MG/L AS C)
00689	CARBON, ORGANIC, SUSPENDED TOTAL (MG/L AS C)
00689	CARBON, ORGANIC, SUSPENDED (MG/L AS C)
00694	CARBON, INORGANIC PLUS ORGANIC, SUSPENDED TOTAL (MG/L AS C)
00694	CARBON, INORGANIC PLUS ORGANIC, SUSPENDED (MG/L AS C)
01116	CESIUM, SUSPENDED TOTAL (UG/L AS CS)
01116	CESIUM, SUSPENDED (UG/L AS CS)
28404	CESIUM 137, SUSPENDED TOTAL (PCI/L)
28404	CESIUM 137, SUSPENDED (PCI/L)
28405	CESTUM 137,SUSPENDED TOTAL, COUNTING ERROR (PCI/L)
28405	CESIUM 137,SUSPENDED, COUNTING ERROR (PCI/L)
28412	CESIUM 134, SUSPENDED TOTAL (PCI/L)
28412	CESIUM 134, SUSPENDED (PCI/L)
28413	CESIUM 134, SUSPENDED TOTAL, COUNTING ERROR (PCI/L)
28413	CESIUM 134, SUSPENDED, COUNTING ERROR (PCI/L)
39353	CHLORDANE, SUSPENDED TOTAL (UG/L)
39353	CHLORDANE, SUSPENDED (UG/L)
01029	CHROMIUM, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS CR)
01029	CHROMIUM, TOTAL IN BOTTOM MATERIAL (UG/G AS CR)
01031	CHROMIUM, SUSPENDED RECOVERABLE (UG/L AS CR)
01031	CHROMIUM, SUSPENDED (UG/L AS CR)
01034	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)
01034	CHROMIUM, TOTAL (UG/L AS CR)
01036	COBALT, SUSPENDED RECOVERABLE (UG/L AS CO)
01036	COBALT, SUSPENDED (UG/L AS CO)
01037	COBALT, TOTAL RECOVERABLE (UG/L AS CO)
01037	COBALT, TOTAL (UG/L AS CO)
01038	COBALT, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS CO)
01038	COBALT, TOTAL IN BOTTOM MATERIAL (UG/G AS CO)
01041	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU)
01041	COPPER, SUSPENDED (UG/L AS CU)
01042	COPPER, TOTAL RECOVERABLE (UG/L AS CU)
01042	COPPER, TOTAL (UG/L AS CU)
01043	COPPER, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS CU)
01043	COPPER, TOTAL IN BOTTOM MATERIAL (UG/G AS CU)
39362	DDD, SUSPENDED TOTAL (UG/L)
39362	DDD, SUSPENDED (UG/L)
39367	DDE, SUSPENDED TOTAL (UG/L)
39367	DDE, SUSPENDED (UG/L)
39372	DDT, SUSPENDED TOTAL (UG/L)
39372	DDT, SUSPENDED (UG/L)
39573	DIAZINON, SUSPENDED TOTAL (UG/L)
39573	DIAZINON, SUSPENDED (UG/L)

ALPHABETIC LISTING--Continued

PARM. CODE	NEW TERMINOLOGY -- FIRST LINE OLD TERMINOLOGY -- SECOND LINE
39382	DIELDRIN, SUSPENDED TOTAL (UG/L)
39382	DIELDRIN, SUSPENDED (UG/L)
39392	ENDRIN, SUSPENDED TOTAL (UG/L)
39392	ENDRIN, SUSPENDED (UG/L)
01121	GALLIUM, SUSPENDED TOTAL (UG/L AS GA)
01121	GALLIUM, SUSPENDED (UG/L AS GA)
01126	GERMANIUM, SUSPENDED TOTAL (UG/L AS GE)
01126	GERMANIUM, SUSPENDED (UG/L AS GE)
01516	GROSS ALPHA RADIOACTIVITY, SUSPENDED TOTAL (PCI/L AS U NATURAL)
01516	GROSS ALPHA RADIOACTIVITY, SUSPENDED (PCI/L AS U NATURAL)
01517	GROSS ALPHA RADIOACTIVITY, SUSPENDED TOTAL (PCI/G AS U NATURAL)
01517	GROSS ALPHA RADIOACTIVITY, SUSPENDED (PCI/G AS U NATURAL)
01518	GROSS ALPHA RADIOACTIVITY, SUSPENDED TOTAL (UG/G AS U NATURAL)
01518	GROSS ALPHA RADIOACTIVITY, SUSPENDED (UG/G AS U NATURAL)
80040	GROSS ALPHA RADIOACTIVITY, SUSPENDED TOTAL (UG/L AS U NATURAL)
80040	GROSS ALPHA RADIOACTIVITY, SUSPENDED (UG/L AS U NATURAL)
80060	GROSS BETA RADIOACTIVITY, SUSPENDED TOTAL (PCI/L AS SR/YT-90)
80060	GROSS BETA RADIOACTIVITY, SUSPENDED (PCI/L AS SR/YT-90)
03516	GROSS BETA RADIOACTIVITY, SUSPENDED TOTAL (PCI/L AS CS-137)
03516	GROSS BETA RADIOACTIVITY, SUSPENDED (PCI/L AS CS-137)
03517	GROSS BETA RADIOACTIVITY, SUSPENDED TOTAL (PCI/G AS SR/YT-90)
03517	GROSS BETA RADIOACTIVITY, SUSPENDED (PCI/G AS SR/YT-90)
03518	GROSS BETA RADIOACTIVITY, SUSPENDED TOTAL (PCI/G AS CS-137)
03518	GROSS BETA RADIOACTIVITY, SUSPENDED (PCI/G AS CS-137)
39412	HEPTACHLOR, SUSPENDED TOTAL (UG/L)
39412	HEPTACHLOR, SUSPENDED (UG/L)
39422	HEPTACHLOR EPOXIDE, SUSPENDED TOTAL (UG/L)
39422	HEPTACHLOR EPOXIDE, SUSPENDED (UG/L)
01044	IRON, SUSPENDED RECOVERABLE (UG/L AS FE)
01044	IRON, SUSPENDED (UG/L AS FE)
01045	IRON, TOTAL RECOVERABLE (UG/L AS FE)
01045	IRON, TOTAL (UG/L AS FE)
01170	IRON, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS FE)
01170	IRON, TOTAL IN BOTTOM MATERIAL (UG/G AS FE)
07062	IRON 59, SUSPENDED TOTAL (PCI/L)
07062	IRON 59, SUSPENDED (PCI/L)
07063	IRON 59, SUSPENDED TOTAL, COUNTING ERROR (PCI/L)
07063	IRON 59, SUSPENDED, COUNTING ERROR (PCI/L)
39432	ISODRIN, SUSPENDED TOTAL (UG/L)
39432	ISODRIN, SUSPENDED (UG/L)
01050	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)
01050	LEAD, SUSPENDED (UG/L AS PB)
01051	LEAD, TOTAL RECOVERABLE (UG/L AS PB)
01051	LEAD, TOTAL (UG/L AS PB)

PARM. CODE	NEW TERMINOLOGY -- FIRST LINE OLD TERMINOLOGY -- SECOND LINE
01052	LEAD, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS PB)
01052	LEAD, TOTAL IN BOTTOM MATERIAL (UG/G AS PB)
39342	LINDANE, SUSPENDED TOTAL (UG/L)
39342	LINDANE, SUSPENDED (UG/L)
01131	LITHIUM, SUSPENDED RECOVERABLE (UG/L AS LI)
01131	LITHIUM, SUSPENDED (UG/L AS LI)
01132	LITHIUM, TOTAL RECOVERABLE (UG/L AS LI)
01132	LITHIUM, TOTAL (UG/L AS LI)
00926	MAGNESIUM, SUSPENDED RECOVERABLE (MG/L AS MG)
00926	MAGNESIUM, SUSPENDED (MG/L AS MG)
00927	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG)
00927	MAGNESIUM, TOTAL (MG/L AS MG)
39533	MALATHION, SUSPENDED TOTAL (UG/L)
39533	MALATHION, SUSPENDED (UG/L)
01053	MANGANESE, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS MN)
01053	MANGANESE, TOTAL IN BOTTOM MATERIAL (UG/G AS MN)
01054	MANGANESE, SUSPENDED RECOVERABLE (UG/L AS MN)
01054	MANGANESE, SUSPENDED (UG/L AS MN)
01055	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)
01055	MANGANESE, TOTAL (UG/L AS MN)
71895	MERCURY, SUSPENDED RECOVERABLE (UG/L AS HG)
71895	MERCURY, SUSPENDED (UG/L AS HG)
71900	MERCURY, TOTAL RECOVERABLE (UG/L AS HG)
71900	MERCURY, TOTAL (UG/L AS HG)
71921	MERCURY, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS HG)
71921	MERCURY, TOTAL IN BOTTOM MATERIAL (UG/G AS HG)
39603	METHYL PARATHION, SUSPENDED TOTAL (UG/L)
39603	METHYL PARATHION, SUSPENDED (UG/L)
39757	MIREX, SUSPENDED TOTAL (UG/L)
39757	MIREX, SUSPENDED (UG/L)
01061	MOLYBDENUM, SUSPENDED RECOVERABLE (UG/L AS MO)
01061	MOLYBDENUM, SUSPENDED (UG/L AS MO)
01062	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)
01062	MOLYBDENUM, TOTAL (UG/L AS MO)
01063	MOLYBDENUM, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS MO)
01063	MOLYBDENUM, TOTAL IN BOTTOM MATERIAL (UG/G AS MO)
01066	NICKEL, SUSPENDED RECOVERABLE (UG/L AS NI)
01066	NICKEL, SUSPENDED (UG/L AS NI)
01067	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)
01067	NICKEL, TOTAL (UG/L AS NI)
01068	NICKEL, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS NI)
01068	NICKEL, TOTAL IN BOTTOM MATERIAL (UG/G AS NI)
00623	NITROGEN, AMMONIA PLUS ORGANIC, DISSOLVED (MG/L AS N)
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)
00624	NITROGEN, AMMONIA PLUS ORGANIC, SUSPENDED TOTAL (MG/L AS N)
00624	NITROGEN, KJELDAHL, SUSPENDED (MG/L AS N)
00625	NITROGEN, AMMONIA PLUS ORGANIC, TOTAL (MG/L AS N)
00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)
00626	NITROGEN, AMMONIA PLUS ORGANIC, TOTAL IN BOTTOM MATERIAL, DRY WT (MG/KG AS N)
00626	NITROGEN, KJELDAHL, TOTAL IN BOTTOM MATERIAL, DRY WT (MG/KG AS N)
39543	PARATHION, SUSPENDED TOTAL (UG/L)
39543	PARATHION, SUSPENDED (UG/L)
39518	PCB, SUSPENDED TOTAL (UG/L)
39518	PCB, SUSPENDED (UG/L)

PARM. CODE	NEW TERMINOLOGY -- FIRST LINE OLD TERMINOLOGY -- SECOND LINE
09505	RADIUM 226, SUSPENDED TOTAL (PCI/L)
09505	RADIUM 226, SUSPENDED (PCI/L)
07082	RHODAMINE WT, SUSPENDED TOTAL (UG/L)
07082	RHODAMINE WT, SUSPENDED (UG/L)
01136	RUBIDIUM, SUSPENDED TOTAL (UG/L AS RB)
01136	RUBIDIUM, SUSPENDED (UG/L AS RB)
29633	SCANDIUM 46, SUSPENDED TOTAL (PCI/L)
29633	SCANDIUM 46, SUSPENDED (PCI/L)
29634	SCANDIUM 46, SUSPENDED TOTAL, COUNTING ERROR (PCI/L)
29634	SCANDIUM 46, SUSPENDED, COUNTING ERROR (PCI/L)
01146	SELENIUM, SUSPENDED TOTAL (UG/L AS SE)
01146	SELENIUM, SUSPENDED (UG/L AS SE)
07102	SELENIUM 75, SUSPENDED TOTAL (PCI/L)
07102	SELENIUM 75, SUSPENDED (PCI/L)
07103	SELENIUM 75, SUSPENDED TOTAL, COUNTING ERROR (PCI/L)
07103	SELENIUM 75, SUSPENDED, COUNTING ERROR (PCI/L)
01076	SILVER, SUSPENDED RECOVERABLE (UG/L AS AG)
01076	SILVER, SUSPENDED (UG/L AS AG)
01077	SILVER, TOTAL RECOVERABLE (UG/L AS AG)
01077	SILVER, TOTAL (UG/L AS AG)
01078	SILVER, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS AG)
01078	SILVER, TOTAL IN BOTTOM MATERIAL (UG/G AS AG)
07122	SILVER 110, SUSPENDED TOTAL (PCI/L)
07122	SILVER 110, SUSPENDED (PCI/L)
07123	SILVER 110, SUSPENDED TOTAL, COUNTING ERROR (PCI/L)
07123	SILVER 110, SUSPENDED, COUNTING ERROR (PCI/L)
39763	SILVEX, SUSPENDED TOTAL (UG/L)
39763	SILVEX, SUSPENDED (UG/L)
70299	SOLIDS, RESIDUE AT 110 DEG. C, SUSPENDED TOTAL (MG/L)
70299	SOLIDS, RESIDUE AT 110 DEG. C, SUSPENDED (MG/L)
01081	STRONTIUM, SUSPENDED RECOVERABLE (UG/L AS SR)
01081	STRONTIUM, SUSPENDED (UG/L AS SR)
01082	STRONTIUM, TOTAL RECOVERABLE (UG/L AS SR)
01082	STRONTIUM, TOTAL (UG/L AS SR)
01083	STRONTIUM, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS SR)
01083	STRONTIUM, TOTAL IN BOTTOM MATERIAL (UG/G AS SR)
13505	STRONTIUM 90, SUSPENDED TOTAL (PCI/L)
13505	STRONTIUM 90, SUSPENDED (PCI/L)
13506	STRONTIUM 90, SUSPENDED TOTAL, COUNTING ERROR (PCI/L)
13506	STRONTIUM 90, SUSPENDED, COUNTING ERROR (PCI/L)
07142	SULFUR 35, SUSPENDED TOTAL (PCI/L)
07142	SULFUR 35, SUSPENDED (PCI/L)
07143	SULFUR 35, SUSPENDED TOTAL, COUNTING ERROR (PCI/L)
07143	SULFUR 35, SUSPENDED, COUNTING ERROR (PCI/L)
01101	TIN, SUSPENDED RECOVERABLE (UG/L AS SN)
01101	TIN, SUSPENDED (UG/L AS SN)
01102	TIN, TOTAL RECOVERABLE (UG/L AS SN)
01102	TIN, TOTAL (UG/L AS SN)
01151	TITANIUM, SUSPENDED TOTAL (UG/L AS TI)
01151	TITANIUM, SUSPENDED (UG/L AS TI)
39402	TOXAPHENE, SUSPENDED TOTAL (UG/L)
39402	TOXAPHENE, SUSPENDED (UG/L)

TABLE OF REVISED WATER-QUALITY PARAMETER CODES--Continued

ALPHABETIC LISTING--Continued

PARM. CODE	NEW TERMINOLOGY -- FIRST LINE OLD TERMINOLOGY -- SECOND LINE
07010	TRITIUM, SUSPENDED TOTAL (PCI/L)
07010	TRITIUM, SUSPENDED (PCI/L)
07011	TRITIUM, SUSPENDED TOTAL, COUNTING ERROR (PCI/L)
07011	TRITIUM, SUSPENDED, COUNTING ERROR (PCI/L)
07014	TRITIUM, SUSPENDED TOTAL, COUNTING ERROR (TRITIUM UNITS)
07014	TRITIUM, SUSPENDED, COUNTING ERROR (TRITIUM UNITS)
07016	TRITIUM, SUSPENDED TOTAL (TRITIUM UNITS)
07016	TRITIUM, SUSPENDED (TRITIUM UNITS)
22705	URANIUM, NATURAL, SUSPENDED TOTAL (UG/L AS U NATURAL)
22705	URANIUM, NATURAL, SUSPENDED (UG/L AS U NATURAL)
01086	VANADIUM, SUSPENDED TOTAL (UG/L AS V)
01086	VANADIUM, SUSPENDED (UG/L AS V)
01091	ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN)
01091	ZINC, SUSPENDED (UG/L AS ZN)
01092	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)
01092	ZINC, TOTAL (UG/L AS ZN)
01093	ZINC, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS ZN)
01093	ZINC, TOTAL IN BOTTOM MATERIAL (UG/G AS ZN)
01161	ZIRCONIUM, SUSPENDED TOTAL (UG/L AS ZR)
01161	ZIRCONIUM, SUSPENDED (UG/L AS ZR)
39733	2,4-D, SUSPENDED TOTAL (UG/L)
39733	2,4-D, SUSPENDED (UG/L)
39743	2,4,5-T, SUSPENDED TOTAL (UG/L)
39743	2,4,5-T, SUSPENDED (UG/L)

GREEN RIVER BASIN

09188500 GREEN RIVER AT WARREN BRIDGE, NEAR DANIEL, WY

LOCATION.--Lat 43°01'08", long 110°07'03", in SE¼SE¼NE¼ sec.8, T.35 N., R.111 W., Sublette County, Hydrologic Unit 14040101, on left bank 100 ft (30 m) upstream from bridge on U.S. Highways 187 and 189, 3.4 mi (5.5 km) upstream from Beaver Creek, and 12 mi (19 km) north of Daniel.

DRAINAGE AREA.--468 mi² (1,212 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1931 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 979: 1932(M).

GAGE.--Water-stage recorder. Datum of gage is 7,468.09 ft (2,276.274 m), National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for winter period and for period of no gage-height record, Apr. 3 to May 2, which are poor. Diversions above station for irrigation of about 10,200 acres (41.3 km²), of which about 6,100 acres (24.7 km²) are below station.

AVERAGE DISCHARGE.--47 years, 511 ft³/s (14.47 m³/s), 370,200 acre-ft/yr (456 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,840 ft³/s (137 m³/s) June 9, 1972, gage height, 5.77 ft (1.759 m); minimum recorded, 31 ft³/s (0.88 m³/s) Nov. 26, 1933, gage height, 0.70 ft (0.213 m), from rating curve extended below 120 ft³/s (3.40 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,620 ft³/s (74.2 m³/s) June 17, gage height, 4.55 ft (1.387 m); minimum daily, 78 ft³/s (2.21 m³/s) Feb. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	191	149	130	100	107	94	190	480	1170	2390	1200	333
2	185	149	125	97	103	90	210	550	1120	2440	1060	333
3	185	160	120	91	105	85	200	647	1200	2440	995	328
4	182	149	130	93	110	85	190	627	1250	2360	933	338
5	176	152	135	96	110	88	180	527	1300	2230	849	346
6	170	154	130	100	107	94	180	460	1480	1950	801	356
7	180	157	122	100	105	96	185	415	1710	1680	770	370
8	180	144	115	96	102	100	200	415	1990	1580	755	400
9	175	85	110	94	99	105	220	445	2210	1620	748	445
10	170	110	105	96	98	105	230	582	2480	1680	725	460
11	160	130	105	100	99	105	240	661	2540	1730	696	455
12	170	130	110	100	96	105	240	594	2240	1780	675	445
13	170	125	110	98	94	100	230	608	1860	1780	682	425
14	170	120	115	95	90	95	240	817	2040	1750	755	400
15	170	120	110	95	85	90	260	1080	2320	1690	762	365
16	165	115	103	93	83	90	280	1280	2540	1690	675	338
17	160	115	96	92	80	93	270	1130	2570	1760	594	311
18	155	110	92	91	78	97	290	1100	2390	1820	539	315
19	155	100	88	90	80	100	320	986	2160	1800	493	324
20	155	90	86	88	84	107	350	959	2000	1560	460	315
21	160	80	85	90	87	116	390	1050	1920	1370	410	303
22	162	90	88	87	93	110	370	1220	1990	1330	380	291
23	160	100	90	85	90	110	430	1370	2160	1240	375	287
24	157	110	94	87	93	114	470	1500	2330	1080	380	275
25	154	115	94	91	100	110	520	1460	2460	1020	400	267
26	154	125	90	96	105	120	540	1380	2460	1080	400	259
27	152	135	87	103	100	130	520	1330	2230	1160	380	247
28	149	135	85	104	97	140	510	1420	2020	1180	370	243
29	149	135	90	102	---	150	500	1570	2100	1280	360	243
30	154	135	94	107	---	160	490	1400	2270	1390	351	239
31	165	---	96	110	---	180	---	1300	---	1380	338	---
TOTAL	5140	3724	3230	2967	2680	3364	9445	29363	60510	51240	19311	10056
MEAN	166	124	104	95.7	95.7	109	315	947	2017	1653	623	335
MAX	191	160	135	110	110	180	540	1570	2570	2440	1200	460
MIN	149	80	85	85	78	85	180	415	1120	1020	338	239
AC-FT	10200	7390	6410	5890	5320	6670	18730	58240	120000	101600	38300	19950

CAL YR 1977 TOTAL 102264 MEAN 280 MAX 2119 MIN 59 AC-FT 202800
WTR YR 1978 TOTAL 201030 MEAN 551 MAX 2570 MIN 78 AC-FT 398700

09188500 GREEN RIVER AT WARREN BRIDGE, NEAR DANIEL, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1962-64, 1968 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
OCT											
06...	1000	176	390	--	6.5	1	--	--	--	--	--
14...	1215	A170	400	--	6.0	0	9.8	K2	210	110	62
19...	1400	A172	420	8.7	8.0	0	9.2	--	210	120	61
NOV											
01...	1710	152	420	--	2.0	1	--	--	--	--	--
30...	1055	A135	190	--	.0	1	--	--	--	--	--
DEC											
01...	1130	A130	420	--	.0	1	9.9	K1	260	160	77
22...	1100	A88	430	--	.0	1	10.2	--	260	150	78
30...	1700	A94	480	--	.0	1	--	--	--	--	--
JAN											
22...	1100	A87	520	--	.0	1	--	K1	290	170	83
31...	1415	A110	480	--	.0	1	--	--	--	--	--
FEB											
19...	1130	A80	430	--	.0	0	9.8	K2	300	170	86
MAR											
07...	1245	A96	580	--	.0	1	--	--	--	--	--
18...	1115	A97	570	--	.0	1	10.2	K1	310	190	92
28...	1615	A140	540	--	1.0	--	--	--	--	--	--
31...	1125	A180	--	--	.5	--	--	--	290	170	84
APR											
30...	1430	A490	460	--	6.0	2	9.8	K3	240	96	68
MAY											
02...	1815	545	420	--	12.0	5	--	--	--	--	--
24...	1150	1150	220	--	7.5	15	--	--	--	--	--
27...	1230	1340	330	8.2	10.0	2	10.8	K4	180	31	50
JUN											
01...	1200	1170	300	--	9.0	5	--	--	--	--	--
13...	1525	1860	190	--	10.5	6	--	--	--	--	--
20...	1130	2030	210	8.1	9.0	6	9.3	21	110	37	32
27...	1800	2180	160	--	12.0	4	--	--	--	--	--
JUL											
19...	2030	1750	140	--	14.5	6	--	--	--	--	--
AUG											
02...	1730	1030	130	--	17.0	2	--	--	--	--	--
05...	1030	857	185	8.1	13.5	--	8.4	K8	74	35	22
31...	1315	333	245	--	15.5	1	--	--	--	--	--
SEP											
02...	1130	333	290	8.2	14.0	1	8.2	K4	140	77	42

A-Daily mean discharge.
K-Results based on colony count outside the acceptable range (non-ideal colony count).

09188500 GREEN RIVER AT WARREN BRIDGE, NEAR DANIEL, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)
OCT											
06...	--	--	--	--	--	--	--	--	--	--	--
14...	14	3.0	.1	1.1	130	--	110	100	1.3	.2	4.6
19...	14	3.1	.1	4.4	110	0	90	110	.8	.2	4.0
NOV											
01...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
DEC											
01...	17	3.5	.1	1.2	130	--	110	160	1.3	.4	6.3
22...	17	3.5	.1	1.3	140	--	110	150	1.9	.3	6.6
30...	--	--	--	--	--	--	--	--	--	--	--
JAN											
22...	19	3.6	.1	1.2	140	--	110	170	1.3	.3	6.4
31...	--	--	--	--	--	--	--	--	--	--	--
FEB											
19...	20	3.4	.1	1.2	150	--	120	160	1.2	.3	7.4
MAR											
07...	--	--	--	--	--	--	--	--	--	--	--
18...	20	3.8	.1	1.2	150	--	120	170	1.2	.4	7.5
28...	--	--	--	--	--	--	--	--	--	--	--
31...	19	3.2	.1	1.1	150	0	120	150	1.2	--	6.2
APR											
30...	18	4.3	.1	1.3	180	--	150	110	1.4	.2	7.0
MAY											
02...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
27...	13	3.4	.1	1.1	180	0	150	36	1.8	.1	6.5
JUN											
01...	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
20...	7.3	1.8	.1	1.0	89	0	73	43	.5	.1	4.0
27...	--	--	--	--	--	--	--	--	--	--	--
JUL											
19...	--	--	--	--	--	--	--	--	--	--	--
AUG											
02...	--	--	--	--	--	--	--	--	--	--	--
05...	4.6	1.7	.1	1.0	47	0	39	34	1.0	.1	2.4
31...	--	--	--	--	--	--	--	--	--	--	--
SEP											
02...	9.0	2.9	.1	1.2	79	0	65	71	1.1	.1	2.9

09188500 GREEN RIVER AT WARREN BRIDGE, NEAR DANIEL, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SOLIDS, RESIDUE AT 105 DEG. C, DIS-SOLVED (MG/L)	SOLIDS, SUM UF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)
OCT										
06...	--	--	--	--	--	--	--	--	--	--
14...	--	251	.34	115	--	.05	--	--	--	--
19...	310	252	.34	117	<1	.00	.00	.00	.00	.11
NOV										
01...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
DEC										
01...	--	331	.45	116	--	.06	--	--	--	--
22...	--	328	.45	77.9	--	.10	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
JAN										
22...	--	354	.48	83.2	--	.09	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--
FEB										
19...	--	354	.48	76.5	--	.08	--	--	--	--
MAR										
07...	--	--	--	--	--	--	--	--	--	--
18...	--	370	.50	96.9	--	.09	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
31...	--	339	.46	165	--	.01	--	--	--	--
APR										
30...	--	299	.41	396	--	.09	--	--	--	--
MAY										
02...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
27...	--	201	.27	727	--	.10	--	--	--	--
JUN										
01...	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--
20...	--	134	.18	734	--	.08	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
JUL										
19...	--	--	--	--	--	--	--	--	--	--
AUG										
02...	--	--	--	--	--	--	--	--	--	--
05...	--	90	.12	208	--	.05	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--
SEP										
02...	--	169	.23	152	--	.06	--	--	--	--

09188500 GREEN RIVER AT WARREN BRIDGE, NEAR DANIEL, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITRU-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITHO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,NH4 + URG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	PHYTO-PLANK-TON, TOTAL (CELLS PER ML)	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M
OCT										
06...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	.00	--	--	--	220	1.34
19...	.12	.11	.00	.12	.00	.01	.00	.00	75	--
NOV										
01...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
DEC										
01...	--	--	--	--	.00	--	--	--	100	--
22...	--	--	--	--	.01	--	--	--	29	--
30...	--	--	--	--	--	--	--	--	--	--
JAN										
22...	--	--	--	--	.01	--	--	--	80	--
31...	--	--	--	--	--	--	--	--	--	--
FEB										
19...	--	--	--	--	.01	--	--	--	40	--
MAR										
07...	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	.03	--	--	--	110	--
20...	--	--	--	--	--	--	--	--	--	--
31...	--	.54	.26	.28	.07	--	.01	.03	--	--
APR										
30...	--	--	--	--	.02	--	--	--	590	--
MAY										
02...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	.02	--	--	--	940	1.65
JUN										
01...	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	.04	--	--	--	310	2.44
27...	--	--	--	--	--	--	--	--	--	--
JUL										
19...	--	--	--	--	--	--	--	--	--	--
AUG										
02...	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	.00	--	--	--	40	1.10
31...	--	--	--	--	--	--	--	--	--	--
SEP										
02...	--	--	--	--	.03	--	--	--	170	4.00

09188500 GREEN RIVER AT WARREN BRIDGE, NEAR DANIEL, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	IN-VERTE-BRATES, BENTHIC WET WT. (G/SQ METER)	BIOMASS CHLORO-PHYLL RATIO PLANK-TON (UNITS)	BIOMASS CHLORO-PHYLL RATIO PERI-PHYTON (UNITS)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L)	CHLOR-A PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	CHLOR-B PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
OCT										
06...	--	--	--	--	--	--	--	--	2	.95
14...	1.57	--	500000	.00	.010	.010	.001	.000	--	--
19...	--	9.3	--	--	.017	.007	--	--	4	1.9
NOV										
01...	--	--	--	--	--	--	--	--	3	1.2
30...	--	--	--	--	--	--	--	--	4	1.5
DEC										
01...	--	--	--	--	.000	.000	--	--	--	--
22...	--	--		--	.000	.000	--	--	--	--
30...	--	--	--	--	--	--	--	--	2	.51
JAN										
22...	--	--	--	--	.000	.000	--	--	--	--
31...	--	--	--	--	--	--	--	--	3	.89
FEB										
19...	--	--		--	.000	.000	--	--	--	--
MAR										
07...	--	--	--	--	--	--	--	--	4	1.0
18...	--	--	--	--	.000	.000	--	--	--	--
28...	--	--	--	--	--	--	--	--	9	3.4
31...	--	--	--	--	--	--	--	--	--	--
APR										
30...	--	--	--	--	.000	.000	--	--	--	--
MAY										
02...	--	--	--	--	--	--	--	--	43	63
24...	--	--	--	--	--	--	--	--	94	292
27...	2.28	--	5000	564	1.00	.000	.280	.040	--	--
JUN										
01...	--	--	--	--	--	--	--	--	24	76
13...	--	--	--	--	--	--	--	--	47	236
20...	2.99	--	3247	--	1.54	.000	.350	.000	--	--
27...	--	--	--	--	--	--	--	--	36	212
JUL										
19...	--	--	--	--	--	--	--	--	32	151
AUG										
02...	--	--	--	--	--	--	--	--	6	17
05...	1.50	--	.00	875	.000	.000	.360	.000	--	--
31...	--	--	--	--	--	--	--	--	7	6.3
SEP										
02...	5.59	--		603	.000	.000	1.31	.000	--	--

DATE	TIME	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, DIS-SOLVED (UG/L AS CU)
OCT								
19...	1400	10	0	0	20	0	10	0
MAR								
31...	1125	--	--	--	--	--	--	--

DATE	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT								
19...	20	0	0	.0	1	0	0	10
MAR								
31...	20	--	--	--	--	--	--	--

DATE	TIME	GROSS ALPHA, DIS-SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS-SOLVED (UG/L AS U)
OCT									
19...	1400	<6.3	<.4	3.3	<.4	2.8	<.4	.19	.5

09188500 GREEN RIVER AT WARREN BRIDGE, NEAR DANIEL, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO SEPTEMBER 1978

DATE	OCT 14,77	OCT 19,77	DEC 1,77	DEC 22,77	JAN 22,78	FEB 19,78
TIME	1215	1400	1130	1100	1100	1130
TOTAL CELLS/ML	220	75	100	29	80	48
DIVERSITY: DIVISION	0.9	0.9	1.0	1.0	0.0	0.5
.CLASS	0.9	0.9	1.0	1.0	0.0	0.5
..ORDER	1.7	0.9	1.0	1.0	0.7	0.5
...FAMILY	2.7	1.3	1.6	1.0	2.4	2.2
....GENUS	2.7	1.3	1.6	1.0	2.4	2.2

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)												
.CHLOROPHYCEAE												
..CHLOROCOCCALES												
...OOCYSTACEAE												
....ANKISTRODESMUS	--	-	--	-	--	-	--	-	--	-	5	10
....TREUBARIA	--	-	--	-	--	-	--	-	--	-	--	-
...SCENEDESMACEAE												
....SCENEDESMUS	50#	22	50#	67	--	-	--	-	--	-	--	-
..ULOTRICHALES												
...ULOTRICHACEAE												
....ULOTHRIX	--	-	--	-	--	-	--	-	--	-	--	-
..VOLVOCALES												
...CHLAMYDOMONADACEAE												
....CHLAMYDOMONAS	8	4	--	-	--	-	--	-	--	-	--	-
..ZYGNEMATALES												
...DESMIDIACEAE												
....CLOSTERIUM	8	4	--	-	--	-	--	-	--	-	--	-
....COSMARIUM	--	-	--	-	--	-	15#	50	--	-	--	-
...ZYGNEMATACEAE												
....MOUGEOTIA	8	4	--	-	--	-	--	-	--	-	--	-
CHRYSOPHYTA												
.BACILLARIOPHYCEAE												
..CENTRALES												
...COSCINODISCACEAE												
....CYCLOTELLA	17	7	--	-	--	-	--	-	--	-	--	-
....MELOSIRA	--	-	--	-	--	-	--	-	15#	19	--	-
....STEPHANODISCUS	--	-	--	-	--	-	--	-	--	-	--	-
..PENNALES												
...ACHNANTHACEAE												
....ACHNANTHES	--	-	--	-	--	-	--	-	--	-	--	-
....COCCONEIS	58#	26	12#	17	--	-	--	-	10	13	10#	20
....RHOICOSPHENIA	--	-	--	-	--	-	--	-	--	-	--	-
...CYMBELLACEAE												
....AMPHORA	--	-	--	-	--	-	--	-	--	-	--	-
....CYMBELLA	--	-	--	-	--	-	--	-	--	-	--	-
....EPITHEMIA	--	-	*	0	11	11	--	-	--	-	--	-
...DIATOMACEAE												
....DIATOMA	--	-	--	-	16#	16	--	-	--	-	--	-
....OPEPHORA	--	-	--	-	--	-	--	-	--	-	--	-
...FRAGILARIACEAE												
....ASTERIONELLA	--	-	--	-	--	-	--	-	--	-	--	-
....FRAGILARIA	--	-	--	-	--	-	--	-	--	-	--	-
....SYNEDRA	--	-	--	-	--	-	--	-	10	13	14#	30
...GOMPHONEMATACEAE												
....GOMPHONEMA	8	4	*	0	16#	16	--	-	25#	31	14#	30
...NAVICULACEAE												
....NAVICULA	17	7	12#	17	--	-	--	-	15#	19	5	10
...NITZSCHIACEAE												
....NITZSCHIA	50#	22	*	0	--	-	15#	50	5	6	--	-
...TABELLARIACEAE												
....TABELLARIA	--	-	--	-	--	-	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)												
.CRYPTOPHYCEAE												
..CRYPTOMONADALES												
...CRYPTO,ONADACEAE												
....CRYPTOMONAS	--	-	--	-	--	-	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)												
.CYANOPHYCEAE												
..CHROOCOCCALES												
...CHROOCOCCACEAE												
....ANACYSTIS	--	-	--	-	--	-	--	-	--	-	--	-
..HORMOGONALES												
...NOSTOCACEAE												
....ANABAENA	--	-	--	-	--	-	--	-	--	-	--	-
...OSCILLATORIACEAE												
....OSCILLATORIA	--	-	--	-	58#	58	--	-	--	-	--	-
...RIVULARIACEAE												
....RAPHIDIOPSIS	--	-	--	-	--	-	--	-	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)												
.DINOPHYCEAE												
..GYMNODINIALES												
...GYMNODINIACEAE												
....GYMNODINIUM	--	-	--	-	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

09188500 GREEN RIVER AT WARREN BRIDGE, NEAR DANIEL, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

PHYTOPLANKTUN ANALYSES, OCTUBER 1977 TO SEPTEMBER 1978

DATE TIME	MAR 16,78 1115	APR 30,78 1430	MAY 27,78 1230	JUN 20,78 1130	AUG 5,78 1030	SEP 2,78 1130
TOTAL CELLS/ML	110	590	940	310	48	170
DIVERSITY: DIVISION	0.7	0.8	1.6	1.0	0.4	1.1
.CLASS	0.7	0.8	1.6	1.0	0.4	1.1
..ORDER	1.0	0.8	1.6	1.0	0.4	1.4
...FAMILY	2.6	2.7	2.6	1.9	2.5	3.0
....GENUS	2.6	2.8	2.9	1.9	2.5	3.3

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)												
.CHLOROPHYCEAE												
..CHLOROCOCCALES												
...OUCYSTACEAE												
....ANKISTRODESMUS	--	-	--	-	--	-	--	-	--	-	--	-
....TREUBARIA	--	-	--	-	--	-	--	-	--	-	2	1
...SCENEDESMACEAE												
....SCENEDESMUS	--	-	--	-	--	-	--	-	--	-	14	8
..ULOTRICHALES												
...ULOTRICHACEAE												
....ULOTHRIX	--	-	--	-	260#	27	--	-	--	-	--	-
..VOLVOCALES												
...CHLAMYDOMONADACEAE												
....CHLAMYDOMONAS	20#	19	57	10	--	-	--	-	--	-	--	-
..ZYGNEMATALES												
...DESMIDIACEAE												
....CLOSTERIUM	--	-	--	-	--	-	--	-	--	-	--	-
....COSMARIUM	--	-	--	-	--	-	--	-	--	-	--	-
...ZYGNEMATACEAE												
....MOUGEOTIA	--	-	--	-	--	-	--	-	--	-	--	-
CHRYSOPHYTA												
.BACILLARIOPHYCEAE												
..CENTRALES												
...COSCINODISCACEAE												
....CYCLOTELLA	7	6	--	-	--	-	--	-	--	-	5	3
....MELOSIRA	--	-	--	-	--	-	--	-	--	-	--	-
....STEPHANODISCUS	--	-	--	-	--	-	--	-	--	-	4	2
..PENNALES												
...ACHNANTHACEAE												
....ACHNANTHES	--	-	--	-	86	9	--	-	--	-	5	3
....COCCONEIS	--	-	--	-	57	6	--	-	9#	19	21	12
....RHOICOSPHENIA	7	6	--	-	--	-	--	-	--	-	5	3
...CYMBELLACEAE												
....AMPHORA	--	-	19	3	--	-	--	-	--	-	2	1
....CYMBELLA	--	-	38	6	29	3	44	14	3	6	2	1
....EPITHEMIA	13	13	--	-	--	-	--	-	--	-	2	1
...DIATOMACEAE												
....DIATOMA	7	6	19	3	14	2	15	5	3	6	--	-
....OPEPHORA	--	-	--	-	14	2	--	-	--	-	--	-
...FRAGILARIACEAE												
....ASTERIONELLA	--	-	--	-	--	-	--	-	--	-	14	8
....FRAGILARIA	--	-	--	-	57	6	15	5	16#	33	--	-
....SYNEDRA	26#	25	76	13	29	3	--	-	--	-	--	-
...GOMPHONEMATACEAE												
....GOMPHONEMA	26#	25	130#	23	29	3	15	5	--	-	--	-
...NAVICULACEAE												
....NAVICULA	--	-	170#	29	29	3	44	14	9#	19	20	11
...NITZSCHIACEAE												
....NITZSCHIA	--	-	38	6	57	6	--	-	5	11	--	-
...TABELLARIACEAE												
....TABELLARIA	--	-	--	-	--	-	--	-	--	-	44#	26
CRYPTOPHYTA (CRYPTOMONADS)												
.CRYPTOPHYCEAE												
..CRYPTOMONADALES												
...CRYPTO,UNADACEAE												
....CRYPTOMONAS	--	-	--	-	--	-	--	-	1	3	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)												
.CYANOPHYCEAE												
..CHROOCOCCALES												
...CHROOCOCCACEAE												
....ANACYSTIS	--	-	38	6	--	-	--	-	--	-	--	-
..HORMOGONALES												
...NOSTOCACEAE												
....ANABAENA	--	-	--	-	--	-	180#	57	--	-	18	10
...OSCILLATORIACEAE												
....OSCILLATORIA	--	-	--	-	290#	30	--	-	--	-	--	-
...RIVULARIACEAE												
....RAPHIDIOPSIS	--	-	--	-	--	-	--	-	--	-	16	9
PYRRHOPHYTA (FIRE ALGAE)												
.DINOPHYCEAE												
..GYMNODINIALES												
...GYMNODINIACEAE												
....GYMNODINIUM	--	-	--	-	--	-	--	-	1	3	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

09188500 GREEN RIVER AT WARREN BRIDGE, NEAR DANIEL, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

OCT. 14, 1977
1215 HOURS

PERIPHYTON IDENTIFICATION

_ORGANISM__NAME_______________	_COMMON__NAME_______
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...ACHNANTHACEAE	
....COCCONEIS	
...CYMBELLACEAE	
....CYMBELLA	
...DIATOMACEAE	
& ....DIATOMA	
...FRAGILARIACEAE	
& ....SYNEDRA	
...GOMPHONEMATACEAE	
& ....GOMPHONEMA	
...NITZSCHIACEAE	
& ....NITZSCHIA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
SAMPLING METHOD: PLASTIC SLIDES, TIMED SAMPLING INTERVAL
ANALYSIS METHOD: SLIDE MOUNTING

OCT. 19, 1977
1400 HOURS

IDENTIFICATION OF PERIPHYTON

_ORGANISM__NAME_______________	_COMMON__NAME_______
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..CLADOPHORALES	
...CLADOPHORACEAE	
....CLADOPHORA	
..OEDOGONIALES	
...OEDOGONIACEAE	
& ....OEDOGONIUM	
..ULOTRICHALES	
...MICROSPORACEAE	
....MICROSPORA	
..ZYGNEMATALES	
...ZYGNEMATACEAE	
....MOUGEOTIA	
& ....SPIROGYRA	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...ACHNANTHACEAE	
& ....COCCONEIS	
....RHOICOSPHENIA	
...CYMBELLACEAE	
....CYMBELLA	
& ....EPITHEMIA	
...DIATOMACEAE	
....DIATOMA	
...GOMPHONEMATACEAE	
& ....GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
& ....NAVICULA	
CYANOPHYTA	BLUE-GREEN ALGAE
.CYANOPHYCEAE	
..CHROCCOCCALES	COCCOID BLUE-GREENS
...CHROCCOCCAEAE	
....AGMENELLUM	
..HORMOGONALES	FILAMENTOUS BL-GREEN
...OSCILLATORIACEAE	
....LYNGBYA	
....OSCILLATORIA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED

ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

09188500 GREEN RIVER AT WARREN BRIDGE, NEAR DANIEL, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

MAY 27, 1978
1230 HOURS

PERIPHYTON IDENTIFICATION

_ORGANISM__NAME_______________	_COMMON__NAME_______
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..OEDOGONIALES	
...OEDOGONIACEAE	
& ....OEDOGONIUM	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...ACHNANTHACEAE	
....ACHNANTHES	
...CYMBELLACEAE	
....CYMBELLA	
...GOMPHONEMATACEAE	
....GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
& ....NAVICULA	
CYANOPHYTA	BLUE-GREEN ALGAE
.CYANOPHYCEAE	
..HORMOGONALES	FILAMENTOUS BL-GREEN
...NOSTOCACEAE	
& ....ANABAENA	
...OSCILLATORIACEAE	
& ....OSCILLATORIA	
& ....PHORMIDIUM	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
SAMPLING METHOD: PLASTIC SLIDES, TIMED SAMPLING INTERVAL
ANALYSIS METHOD: GLASS CHAMBER(12MM CIRC), 200-X MICROSCOPE

JUNE 20, 1978
1130 HOURS

IDENTIFICATION OF PERIPHYTON

_ORGANISM__NAME_______________	_COMMON__NAME_______
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..ULOTRICHALES	
...ULOTRICHACEAE	
& ....ULOTHRIX	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...ACHNANTHACEAE	
....ACHNANTHES	
....COCCONEIS	
...DIATOMACEAE	
....DIATOMA	
...GOMPHONEMATACEAE	
& ....GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
....NAVICULA	
CYANOPHYTA	BLUE-GREEN ALGAE
.CYANOPHYCEAE	
..HORMOGONALES	FILAMENTOUS BL-GREEN
...NOSTOCACEAE	
....ANABAENA	
EUGLENOPHYTA	EUGLENOIDS
.EUGLENOPHYCEAE	
..EUGLENALES	
...EUGLENACEAE	
....TRACHELOMONAS	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
SAMPLING METHOD: PLASTIC SLIDES, TIMED SAMPLING INTERVAL
ANALYSIS METHOD: GLASS CHAMBER(12MM CIRC), 200-X MICROSCOPE

09188500 GREEN RIVER AT WARREN BRIDGE, NEAR DANIEL, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

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                         AUG.  5, 1978
                          1030 HOURS

                   PERIPHYTON IDENTIFICATION

      _ORGANISM__NAME_______________   _COMMON__NAME______

      CHRYSOPHYTA
      .BACILLARIOPHYCEAE               DIATOMS
      ..PENNALES                       PENNATE
      ...ACHNANTHACEAE
    & ....COCCONEIS
      ...CYMBELLACEAE
    & ....EPITHEMIA

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
      SAMPLING METHOD: PLASTIC SLIDES, TIMED SAMPLING INTERVAL
      ANALYSIS METHOD: GLASS CHAMBER(12MM CIRC), 200-X MICROSCOPE

                         SEP.  2, 1978
                          1130 HOURS

                   PERIPHYTON IDENTIFICATION

      _ORGANISM__NAME_______________   _COMMON__NAME______

      CHLOROPHYTA                      GREEN ALGAE
      .CHLOROPHYCEAE
      ..ULOTRICHALES
      ...CHAETOPHORACEAE
      ....STIGEOCLONIUM
      CHRYSOPHYTA
      .BACILLARIOPHYCEAE               DIATOMS
      ..PENNALES                       PENNATE
      ...ACHNANTHACEAE
    & ....COCCONEIS
      ...GOMPHONEMATACEAE
    & ....GOMPHONEMA

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
      SAMPLING METHOD: PLASTIC SLIDES, TIMED SAMPLING INTERVAL
      ANALYSIS METHOD: SLIDE MOUNTING, INVERTED MICROSCOPE
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09188500 GREEN RIVER AT WARREN BRIDGE, NEAR DANIEL, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

BENTHIC INVERTEBRATE ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 19,77
TIME	1400
TOTAL COUNT	270
DIVERSITY: PHYLUM	0.1
.CLASS	0.2
..ORDER	1.4
...FAMILY	2.2
....GENUS	3.0
....GENUS-INSECTA	2.8

ORGANISM	COUNT
ARTHROPODA (ARTHROPODS)	
.INSECTA	
..COLEOPTERA	
...ELMIDAE	
....ZAITZEVIA	5
..DIPTERA	
...CERATOPOGONIDAE	
....UNKNOWN GENUS	34
...CHIRONOMIDAE	
....BRILLIA	4
....CONCHAPELOPIA	3
....CORYNONEURA	8
....DIAMESA	98
....EUKIEFFERIELLA	9
....TANYTARSUS	11
....THIENEMANNIELLA	2
..EPHEMEROPTERA	
...BAETIDAE	
....BAETIS	1
....PSEUDOCLOEON	2
...EPHEMERELLIDAE	
....EPHEMERELLA	1
..PLECOPTERA	
...CHLOROPERLIDAE	
....UNKNOWN GENUS	2
...PTERONARCIDAE	
....PTERONARCYS	2
..TRICHOPTERA	
...BRACHYCENTRIDAE	
....BRACHYCENTRUS	66
...HYDROPSYCHIDAE	
....ARCTOPSYCHE	1
....CHEUMATOPSYCHE	1
...LEPIDOSTOMATIDAE	
....LEPIDOSTOMA	9
...RHYACOPHILIDAE	
....RHYACOPHILA	1
..COLEOPTERA	
...ELMIDAE	
....ANCYRONYX	
.....A.VARIEGATA	1
..TRICHOPTERA	
...HYDROPSYCHIDAE	
....HYDROPSYCHE	2
.ARACHNIDA	
..HYDRACARINA	
...UNKNOWN FAMILY	
....UNKNOWN GENUS #3	4
MOLLUSCA (MOLLUSCS)	
.GASTROPODA	
..BASOMMATOPHORA	
...LYMNAEIDAE	
....LYMNAEA	2
..MESOGASTROPODA	
...HYDROBIIDAE	
....AMNICOLA	1

09192600 GREEN RIVER NEAR BIG PINEY, WY

LOCATION.--Lat 42°34'14", long 109°56'58", in NE¼NE¼NE¼ sec.21, T.30 N., R.110 W., Sublette County, Hydrologic Unit 14040101, at bridge on State Secondary Highway 1801, 1.9 mi (3.1 km) upstream from New Fork River, 8.4 mi (13.5 km) northeast of Big Piney, and 16.2 mi (26.1 km) southwest of Boulder.

DRAINAGE AREA.--1,260 mi^2 (3,260 km^2), approximately.

PERIOD OF RECORD.--Water years 1968 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO
OCT											
07...	1200	237	510	7.0	1	210	87	65	13	30	.9
19...	1510	E250	--	9.5	--	220	92	61	16	11	.3
NOV											
03...	0930	174	480	2.5	1	250	110	71	17	17	.5
29...	1710	226	550	.5	2	250	97	71	18	12	.3
JAN											
03...	1250	182	580	.0	1	280	120	84	18	8.0	.2
31...	1710	175	600	.5	1	280	120	85	16	9.7	.3
MAR											
08...	1135	160	610	.0	1	270	140	78	19	13	.3
27...	1200	303	670	.0	4	260	80	38	40	53	1.4
31...	1200	E300	--	1.0	--	260	79	66	23	89	2.4
MAY											
04...	1440	1720	400	8.5	25	170	55	44	15	9.3	.3
JUN											
12...	1300	3810	340	11.0	30	150	14	42	12	7.1	.2
JUL											
12...	0950	2100	260	16.0	9	120	5	39	9.9	7.5	.3
AUG											
01...	1130	1630	230	17.0	2	98	24	28	7.1	4.3	.2
SEP											
06...	1710	192	300	20.0	1	150	68	44	8.9	4.9	.2

E-Estimate.

DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)
OCT										
07...	1.4	150	0	120	130	7.5	.2	4.6	328	.45
19...	1.3	150	2	130	110	2.2	.2	4.2	282	.38
NOV										
03...	1.2	160	6	140	120	3.8	.3	6.1	322	.44
29...	1.4	180	3	150	120	3.1	.3	7.1	321	.44
JAN										
03...	1.5	200	0	160	120	1.1	.3	8.4	503	.68
31...	1.3	200	0	160	110	18	.4	8.0	335	.46
MAR										
08...	1.7	160	0	130	130	19	.3	8.7	349	.47
27...	2.4	220	0	180	190	8.9	.3	9.4	448	.61
31...	3.9	220	0	180	250	14	--	7.9	562	.76
MAY										
04...	1.2	140	0	110	64	1.7	1.8	.1	206	.28
JUN										
12...	1.0	160	3	140	33	.9	.3	10	180	.24
JUL										
12...	.4	140	0	120	18	1.1	.2	2.1	149	.20
AUG										
01...	.3	90	0	74	29	1.1	.2	2.4	116	.16
SEP										
06...	.9	100	0	82	74	1.1	.3	2.8	237	.32

09192600 GREEN RIVER NEAR BIG PINEY, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)
OCT										
07...	210	1.5	--	--	--	--	--	--	--	--
19...	--	--	.00	.00	.00	.00	.15	.12	.15	.03
NOV										
03...	151	.00	--	--	--	--	--	--	--	--
29...	196	.00	--	--	--	--	--	--	--	--
JAN										
03...	247	.09	--	--	--	--	--	--	--	--
31...	158	.07	--	--	--	--	--	--	--	--
MAR										
08...	151	.00	--	--	--	--	--	--	--	--
27...	367	.25	--	--	--	--	--	--	--	--
31...	455	--	.02	--	--	--	--	--	1.2	.75
MAY										
04...	957	.05	--	--	--	--	--	--	--	--
JUN										
12...	1850	.25	--	--	--	--	--	--	--	--
JUL										
12...	845	.18	--	--	--	--	--	--	--	--
AUG										
01...	511	.00	--	--	--	--	--	--	--	--
SEP										
06...	123	.00	--	--	--	--	--	--	--	--

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)
OCT										
07...	--	.00	--	--	--	--	--	--	14	9.0
19...	.12	.00	.01	.00	.00	20	10	8	--	--
NOV										
03...	--	.01	--	--	--	--	--	--	2	.94
29...	--	.00	--	--	--	--	--	--	14	8.5
JAN										
03...	--	.01	--	--	--	--	--	--	15	7.4
31...	--	.00	--	--	--	--	--	--	3	1.4
MAR										
08...	--	.21	--	--	--	--	--	--	6	2.6
27...	--	.06	--	--	--	--	--	--	32	26
31...	.45	.03	--	.01	.03	--	60	--	--	--
MAY										
04...	--	.00	--	--	--	--	--	--	212	985
JUN										
12...	--	.20	--	--	--	--	--	--	259	2660
JUL										
12...	--	.05	--	--	--	--	--	--	47	266
AUG										
01...	--	.04	--	--	--	--	--	--	18	79
SEP										
06...	--	.00	--	--	--	--	--	--	6	3.1

09196500 PINE CREEK ABOVE FREMONT LAKE, WY

LOCATION.--Lat 43°01'50", long 109°46'10", in S½ sec.5, T.35 N., R.108 W., Sublette County, Hydrologic Unit 14040102, Bridger National Forest, on right bank 0.5 mi (0.8 km) upstream from Fremont Lake, 0.5 mi (0.8 km) downstream from Fremont Creek, and 12 mi (19 km) northeast of Pinedale.

DRAINAGE AREA.--75.8 mi² (196.3 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1954 to current year.

REVISED RECORDS.--WSP 1443: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 7,540 ft (2,298 m), from topographic map.

REMARKS.--Records good except those for winter period, which are poor. No diversion above station.

AVERAGE DISCHARGE.--24 years, 179 ft³/s (5.069 m³/s), 129,700 acre-ft/yr (160 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,550 ft³/s (72.2 m³/s) June 16, 1959, gage height, 7.15 ft (2.179 m); minimum daily, 3.3 ft³/s (0.093 m³/s) Apr. 4, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 800 ft³/s (22.7 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
June 10	0600	1,390	39.4	5.85	1.783	June 23	0330	*1,490	42.2	5.98	1.823
June 16	0400	1,360	38.5	5.81	1.771						

Minimum daily discharge, 16 ft³/s (0.45 m³/s) Feb. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	93	47	50	39	21	19	66	64	279	1330	430	101
2	91	47	54	37	21	18	62	72	300	1310	399	99
3	87	46	62	35	21	18	55	85	315	1300	372	98
4	84	45	63	37	21	19	51	83	331	1200	340	96
5	80	45	65	38	21	19	48	80	415	989	301	95
6	82	47	64	37	22	20	45	77	589	900	282	95
7	86	45	64	37	22	20	45	73	824	890	281	97
8	80	42	60	35	22	19	46	70	1010	959	280	103
9	79	42	60	35	21	19	48	73	1170	1020	270	107
10	77	44	59	35	21	19	51	84	1270	1080	257	114
11	72	43	56	34	21	19	53	84	872	1040	243	123
12	72	42	54	33	21	19	52	84	657	1060	235	124
13	71	40	53	32	20	19	49	86	773	964	250	124
14	71	39	54	31	19	19	47	119	1200	909	284	120
15	69	40	56	30	18	18	45	192	1280	974	270	116
16	69	45	57	29	17	17	45	256	1290	934	219	112
17	68	44	56	28	17	18	45	242	1170	976	188	110
18	66	42	56	27	16	18	43	216	1030	875	171	116
19	63	40	54	26	17	19	42	191	994	705	157	110
20	62	39	50	25	18	20	43	185	913	619	144	109
21	61	41	48	24	18	21	43	215	1060	657	133	105
22	60	44	49	23	18	22	42	262	1340	637	126	105
23	57	46	49	22	18	24	41	300	1410	534	121	105
24	57	48	48	20	19	24	42	318	1380	515	114	108
25	56	48	47	21	20	23	46	285	1310	533	111	107
26	54	49	45	22	21	23	56	274	1070	571	110	105
27	52	52	43	22	21	23	60	282	999	567	111	101
28	50	54	41	20	20	26	59	303	1180	562	110	97
29	49	51	42	22	---	32	60	368	1290	659	109	93
30	50	49	42	22	---	40	64	341	1330	601	107	88
31	49	---	42	22	---	49	---	302	---	491	104	---
TOTAL	2117	1346	1643	900	552	683	1494	5666	29051	26361	6629	3183
MEAN	68.3	44.9	53.0	29.0	19.7	22.0	49.8	183	968	850	214	106
MAX	93	54	65	39	22	49	66	368	1410	1330	430	124
MIN	49	39	41	20	16	17	41	64	279	491	104	88
AC-FT	4200	2670	3260	1790	1090	1350	2960	11240	57620	52290	13150	6310

CAL YR 1977 TOTAL 38499.9 MEAN 105 MAX 1460 MIN 3.3 AC-FT 76360
WTR YR 1978 TOTAL 79625.0 MEAN 218 MAX 1410 MIN 16 AC-FT 157900

09196500 PINE CREEK ABOVE FREMONT LAKE, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1976 to September 1978 (discontinued).

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
OCT											
05...	1545	79	21	--	8.0	1	--	--	--	--	--
NOV											
02...	1045	48	21	--	3.5	1	--	--	--	--	--
DEC											
01...	1300	A50	25	--	1.0	1	--	--	--	--	--
JAN											
25...	1055	22	18	--	.5	1	--	--	--	--	--
FEB											
28...	1535	20	22	--	1.0	1	--	--	--	--	--
APR											
20...	0830	42	27	--	2.0	1	--	--	--	--	--
MAY											
23...	1200	285	22	--	4.0	1	11	4	3.7	.5	1.1
JUN											
14...	1225	1200	26	--	5.0	1	8	2	2.7	.2	.9
28...	1030	1100	24	--	6.0	1	--	--	--	--	--
JUL											
20...	1300	618	29	--	9.5	1	--	--	--	--	--
AUG											
03...	1120	377	16	--	12.0	1	5	1	1.5	.2	.3
SEP											
06...	1030	94	18	7.7	15.0	1	5	0	2.0	.1	.6

A-Daily mean discharge.

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)
OCT											
05...	--	--	--	--	--	--	--	--	--	--	--
NOV											
02...	--	--	--	--	--	--	--	--	--	--	--
DEC											
01...	--	--	--	--	--	--	--	--	--	--	--
JAN											
25...	--	--	--	--	--	--	--	--	--	--	--
FEB											
28...	--	--	--	--	--	--	--	--	--	--	--
APR											
20...	--	--	--	--	--	--	--	--	--	--	--
MAY											
23...	.1	.6	9	0	7	5.3	.5	.0	3.7	20	.03
JUN											
14...	.1	.5	7	0	6	2.8	.1	.0	2.6	13	.02
28...	--	--	--	--	--	--	--	--	--	--	--
JUL											
20...	--	--	--	--	--	--	--	--	--	--	--
AUG											
03...	.1	.2	4	0	3	1.4	.3	.0	1.5	8	.01
SEP											
06...	.1	.3	6	0	5	1.9	.2	.0	1.8	10	.01

09196500 PINE CREEK ABOVE FREMONT LAKE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
OCT											
05...	--	--	--	--	--	--	--	--	--	2	.43
NOV											
02...	--	--	--	--	--	--	--	--	--	2	.26
DEC											
01...	--	--	--	--	--	--	--	--	--	2	.27
JAN											
25...	--	--	--	--	--	--	--	--	--	2	.12
FEB											
28...	--	--	--	--	--	--	--	--	--	3	.16
APR											
20...	--	--	--	--	--	--	--	--	--	4	.45
MAY											
23...	15.4	--	.00	.00	--	--	20	20	0	5	3.8
JUN											
14...	42.1	--	.02	.00	--	--	10	20	5	2	6.5
28...	--	--	--	--	--	--	--	--	--	4	13
JUL											
20...	--	--	--	--	--	--	--	--	--	5	8.3
AUG											
03...	8.14	.05	.02	.00	--	--	8	20	<1	8	8.1
SEP											
06...	2.54	.01	.02	.01	.01	.03	0	20	0	2	.51

DATE	TIME	TEMPER-ATURE (DEG C)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	NUMBER OF SAM-PLING POINTS	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 128 MM
SEP								
06...	1030	15.0	94	100	18	35	57	75

09203000 EAST FORK RIVER NEAR BIG SANDY, WY

LOCATION.--Lat 42°40', long 109°25', in sec.7, T.31 N., R.105 W., Sublette County, Hydrologic Unit 14040102, on left bank 1.0 mi (1.6 km) downstream from Jim Creek and 4.0 mi (6.4 km) northeast of Big Sandy.

DRAINAGE AREA.--79.2 mi² (205 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1938 to current year. Prior to October 1967, published as East Fork near Big Sandy. Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder. Altitude of gage is 7,800 ft (2,377 m), by barometer.

REMARKS.--Records good except those for winter period, which are poor. No diversion above station.

AVERAGE DISCHARGE.--40 years, 103 ft³/s (2.917 m³/s), 74,620 acre-ft/yr (92.0 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,790 ft³/s (50.7 m³/s) June 11, 1965, gage height, 7.16 ft (2.182 m), from rating curve extended above 1,200 ft³/s (34.0 m³/s) on basis of slope-area measurement at gage height 6.88 ft (2.097 m); minimum observed, 1.2 ft³/s (0.034 m³/s) Jan. 4, 1940, Jan. 25, 1977 (discharge measurements).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 700 ft³/s (19.8 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	(m³/s)	Gage height (ft)	(m)
June 10	0400	*1,360	38.5	6.53	1.990
June 14	0500	1,280	36.2	6.40	1.951

Minimum daily discharge, 8.5 ft³/s (0.24 m³/s) Feb. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	15	16	14	11	9.2	25	55	445	704	128	26
2	17	15	17	13	11	9.1	26	69	477	602	119	25
3	16	17	18	12	11	9.0	25	87	467	595	110	24
4	15	18	19	13	11	9.0	27	92	438	556	101	23
5	15	20	17	14	11	9.5	28	87	550	462	92	23
6	16	19	16	15	11	9.6	27	69	771	424	88	25
7	24	17	17	16	12	9.8	29	73	1030	367	91	25
8	25	16	17	15	12	10	33	73	1120	429	86	29
9	23	14	16	14	12	10	36	73	1190	443	80	30
10	22	14	15	14	12	10	38	86	1210	442	74	27
11	18	15	15	14	12	10	40	86	768	408	69	27
12	19	16	16	15	11	10	38	82	650	433	68	31
13	19	16	17	15	10	10	38	89	837	364	75	31
14	20	15	17	14	10	9.5	38	144	1170	353	85	29
15	20	13	17	14	10	9.2	37	219	1130	354	82	27
16	19	13	17	14	9.5	9.4	37	283	1090	315	65	24
17	18	13	16	14	9.0	9.7	35	270	937	325	60	25
18	18	13	15	14	8.5	10	34	245	793	297	54	36
19	17	12	14	13	9.0	11	34	223	804	251	50	32
20	17	11	14	12	9.5	11	36	229	717	224	46	30
21	19	11	14	12	10	12	37	285	799	234	42	30
22	23	12	14	11	9.7	13	35	374	945	246	39	34
23	23	13	14	11	10	14	35	445	937	198	36	36
24	22	13	15	11	10	13	36	528	910	184	33	34
25	22	14	15	12	10	12	43	507	858	177	32	32
26	20	16	15	12	10	12	51	492	678	180	30	30
27	19	17	14	12	9.8	12	55	498	606	169	29	28
28	18	17	14	11	9.4	14	53	574	712	159	29	26
29	18	17	14	11	---	16	53	647	736	188	28	24
30	17	17	14	11	---	18	54	601	715	162	27	23
31	16	---	15	11	---	20	---	490	---	140	26	---
TOTAL	593	449	484	404	291.4	351.0	1113	8075	24490	10385	1974	846
MEAN	19.1	15.0	15.6	13.0	10.4	11.3	37.1	260	816	335	63.7	28.2
MAX	25	20	19	16	12	20	55	647	1210	704	128	36
MIN	15	11	14	11	8.5	9.0	25	55	438	140	26	23
AC-FT	1180	891	960	801	578	696	2210	16020	48580	20600	3920	1680

CAL YR 1977 TOTAL 16366.3 MEAN 44.8 MAX 593 MIN 1.2 AC-FT 32460
WTR YR 1978 TOTAL 49455.4 MEAN 135 MAX 1210 MIN 8.5 AC-FT 98090

09203000 EAST FORK RIVER NEAR BIG SANDY, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1965, 1969, 1976 to September 1978 (discontinued).

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
OCT											
05...	1650	15	19	--	9.0	1	--	--	--	--	--
31...	1520	16	36	--	1.5	1	--	--	--	--	--
NOV											
30...	1630	A17	39	--	.0	1	--	--	--	--	--
JAN											
25...	1000	12	50	--	.0	1	--	--	--	--	--
FEB											
28...	1430	A9.4	49	--	.0	1	--	--	--	--	--
APR											
20...	0800	29	42	--	3.0	1	--	--	--	--	--
MAY											
23...	1640	414	32	--	5.5	2	13	2	4.0	.8	1.8
JUN											
13...	2030	851	24	--	8.0	2	12	6	3.7	.7	1.2
21...	1130	817	--	--	6.5	1	--	--	--	--	--
JUL											
20...	1915	209	46	--	13.0	1	--	--	--	--	--
AUG											
02...	1450	121	12	--	15.5	1	8	1	2.4	.4	.5
SEP											
05...	1800	25	24	7.2	16.5	1	10	0	2.9	.7	1.1

A-Daily mean discharge.

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)
OCT											
05...	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--
NOV											
30...	--	--	--	--	--	--	--	--	--	--	--
JAN											
25...	--	--	--	--	--	--	--	--	--	--	--
FEB											
28...	--	--	--	--	--	--	--	--	--	--	--
APR											
20...	--	--	--	--	--	--	--	--	--	--	--
MAY											
23...	.2	.7	14	0	11	5.5	.8	.0	6.7	27	.04
JUN											
13...	.2	.5	7	0	6	3.8	.5	.0	4.5	18	.02
21...	--	--	--	--	--	--	--	--	--	--	--
JUL											
20...	--	--	--	--	--	--	--	--	--	--	--
AUG											
02...	.1	.4	8	0	7	1.6	.3	.0	2.7	12	.02
SEP											
05...	.2	.6	12	0	10	2.2	.3	.0	3.6	17	.02

09203000 EAST FORK RIVER NEAR BIG SANDY, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
OCT											
05...	--	--	--	--	--	--	--	--	--	4	.16
31...	--	--	--	--	--	--	--	--	--	3	.13
NOV											
30...	--	--	--	--	--	--	--	--	--	3	.14
JAN											
25...	--	--	--	--	--	--	--	--	--	1	.03
FEB											
28...	--	--	--	--	--	--	--	--	--	3	.08
APR											
20...	--	--	--	--	--	--	--	--	--	4	.31
MAY											
23...	30.2	--	.01	.00	--	--	30	140	0	12	13
JUN											
13...	41.4	--	.01	.01	--	--	30	60	10	28	64
21...	--	--	--	--	--	--	--	--	--	8	18
JUL											
20...	--	--	--	--	--	--	--	--	--	4	2.3
AUG											
02...	3.92	.02	.00	.00	--	--	10	100	6	6	2.0
SEP											
05...	1.15	.00	.01	.01	.01	.03	2	70	10	2	.13

DATE	TIME	TEMPER-ATURE (DEG C)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	NUMBER OF SAM-PLING POINTS	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM	BED MAT. FALL DIAM. % FINER THAN 1.00 MM
SEP							
05...	1800	16.5	25	120	1	12	17

DATE	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 128 MM
SEP							
05...	18	18	22	33	52	80	93

09205000 NEW FORK RIVER NEAR BIG PINEY, WY

LOCATION.--Lat 42°34'02", long 109°55'46", in SE¼NE¼NE¼ sec.22, T.30 N., R.110 W., Sublette County, Hydrologic Unit 14040102, on right bank 35 ft (11 m) downstream from old highway bridge, 3.4 mi (5.5 km) upstream from mouth, and 9.5 mi (15.3 km) northeast of Big Piney.

DRAINAGE AREA.--1,230 mi² (3,190 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1954 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,800 ft (2,073 m), from topographic map.

REMARKS.--Records good except those for winter period, which are poor. Natural flow of stream affected by storage reservoirs, power development, and diversions for irrigation of about 62,100 acres (251 km²) above station.

AVERAGE DISCHARGE.--24 years, 725 ft³/s (20.53 m³/s), 525,300 acre-ft/yr (648 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,170 ft³/s (260 m³/s) June 10, 1972, gage height, 8.15 ft (2.484 m); minimum daily, 90 ft³/s (2.55 m³/s) Jan. 13, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,290 ft³/s (178 m³/s) June 17, gage height, 6.55 ft (1.996 m); minimum daily, 170 ft³/s (4.81 m³/s) Feb. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	266	314	190	200	235	230	830	511	1630	4750	1540	434
2	259	322	190	195	235	220	827	523	1510	4790	1480	424
3	260	340	200	195	240	210	720	485	1600	4450	1400	408
4	256	335	205	195	245	210	648	484	1640	4230	1310	405
5	254	335	210	200	250	230	646	501	1660	3980	1230	401
6	259	340	205	200	245	240	616	504	1960	3620	1160	401
7	301	338	200	200	240	250	616	495	2430	3340	1110	417
8	296	300	195	195	235	255	718	468	3090	2840	1060	403
9	293	240	190	195	230	270	732	451	3850	2800	976	394
10	287	290	185	195	220	270	742	506	4600	2840	887	390
11	280	310	185	200	220	270	755	514	5350	2870	780	414
12	297	300	190	200	215	270	737	528	4960	2790	730	431
13	295	290	195	200	210	270	670	510	4310	2770	768	444
14	299	280	200	195	200	250	602	484	4450	2670	845	447
15	299	280	210	195	190	230	590	488	5190	2640	877	445
16	294	280	205	195	180	240	602	618	5830	2690	840	426
17	298	270	200	195	175	260	591	923	6210	2760	805	419
18	298	260	200	190	170	290	584	1100	6120	2670	790	491
19	293	250	195	190	180	320	515	1090	5920	2640	748	507
20	292	220	195	190	190	350	504	1030	5880	2450	717	485
21	301	200	190	185	200	380	486	977	5040	2280	681	473
22	310	220	190	185	210	400	457	996	4900	2310	655	454
23	307	230	195	185	220	380	429	1100	5170	2250	634	437
24	299	240	200	180	230	360	419	1230	5410	2030	592	419
25	295	240	205	185	240	340	412	1420	5620	1840	576	418
26	290	235	210	190	250	350	418	1680	5600	1660	559	413
27	288	225	200	195	245	365	451	1600	5170	1540	548	407
28	284	220	195	200	240	420	472	1580	4410	1460	504	405
29	289	210	195	210	---	500	460	1740	4340	1540	494	403
30	300	200	200	220	---	600	466	1860	4650	1540	484	394
31	305	---	205	230	---	700	---	1820	---	1480	460	---
TOTAL	8944	8114	6130	6085	6140	9930	17675	28216	128100	84520	26240	12809
MEAN	289	270	198	196	219	320	589	910	4270	2726	846	427
MAX	310	340	210	230	250	700	830	1860	6210	4790	1540	507
MIN	254	200	185	180	170	210	412	451	1510	1460	460	390
AC-FT	17740	16090	12160	12070	12180	19700	35060	55970	254100	167600	52050	25410

CAL YR 1977 TOTAL 111338 MEAN 305 MAX 2030 MIN 145 AC-FT 220800
WTR YR 1978 TOTAL 342903 MEAN 939 MAX 6210 MIN 170 AC-FT 680100

09205000 NEW FORK RIVER NEAR BIG PINEY, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)
OCT											
07...	1600	305	200	--	12.0	5	--	--	--	--	--
14...	1345	299	220	--	10.0	--	--	91	0	27	6.0
19...	1515	294	230	8.0	10.0	1	9.7	100	4	31	6.4
NOV											
02...	1600	323	230	--	4.5	2	--	--	--	--	--
DEC											
01...	1300	A190	190	--	.0	--	--	88	0	26	5.7
01...	1730	A190	240	--	.0	2	--	--	--	--	--
22...	1230	A190	200	--	.0	--	--	91	1	27	5.7
JAN											
03...	1620	A195	190	--	.0	2	--	--	--	--	--
22...	1230	A185	205	--	.0	--	--	81	0	29	2.0
FEB											
01...	1145	A235	270	--	.0	2	--	--	--	--	--
19...	1300	A180	170	--	.0	--	--	87	0	17	11
MAR											
08...	1530	A255	220	--	.0	3	--	--	--	--	--
18...	1300	A290	240	--	.0	--	--	79	0	24	4.6
27...	1515	A365	160	--	.5	10	--	--	--	--	--
APR											
03...	1300	732	260	--	6.5	15	--	--	--	--	--
30...	1315	468	190	--	10.0	--	--	140	64	22	4.1
MAY											
04...	1030	482	175	--	9.5	3	--	--	--	--	--
24...	1525	1230	75	--	12.5	15	--	--	--	--	--
27...	1500	1600	76	7.3	11.0	--	--	27	4	7.8	1.5
JUN											
12...	1600	4790	70	--	13.0	9	--	--	--	--	--
20...	1330	5440	120	7.6	12.0	--	--	34	0	10	2.1
JUL											
12...	1300	2760	100	--	18.0	4	--	--	--	--	--
18...	1530	2670	140	--	18.0	2	--	--	--	--	--
AUG											
01...	1440	1550	85	--	19.5	2	--	--	--	--	--
05...	1230	1230	145	8.1	18.0	--	--	50	0	15	2.9
SEP											
02...	1315	424	190	8.5	17.0	--	--	88	11	26	4.3
06...	1630	398	180	--	25.0	1	--	--	--	--	--

A-Daily mean discharge.

09205000 NEW FORK RIVER NEAR BIG PINEY, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 105 DEG. C, DIS- SOLVED (MG/L)
OCT											
07...	--	--	--	--	--	--	--	--	--	--	--
14...	12	.5	1.9	120	0	98	14	1.9	.3	8.8	--
19...	10	.4	1.9	120	1	100	15	2.2	.2	9.3	130
NOV											
02...	--	--	--	--	--	--	--	--	--	--	--
DEC											
01...	9.9	.5	1.6	110	0	90	13	2.7	.2	23	--
01...	--	--	--	--	--	--	--	--	--	--	--
22...	10	.5	1.6	110	0	90	12	7.1	.3	10	--
JAN											
03...	--	--	--	--	--	--	--	--	--	--	--
22...	9.7	.5	1.6	110	0	90	13	1.8	.2	18	--
FEB											
01...	--	--	--	--	--	--	--	--	--	--	--
19...	10	.5	1.4	110	0	90	14	1.8	.3	11	--
MAR											
08...	--	--	--	--	--	--	--	--	--	--	--
18...	11	.5	1.3	110	0	90	11	6.0	.2	14	--
27...	--	--	--	--	--	--	--	--	--	--	--
APR											
03...	--	--	--	--	--	--	--	--	--	--	--
30...	7.5	.4	2.0	93	0	75	12	.0	.3	.0	--
MAY											
04...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
27...	3.3	.3	.7	28	0	23	2.0	6.4	.1	4.6	--
JUN											
12...	--	--	--	--	--	--	--	--	--	--	--
20...	3.5	.3	.1	46	0	38	3.0	.0	.1	5.4	--
JUL											
12...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
AUG											
01...	--	--	--	--	--	--	--	--	--	--	--
05...	5.0	.3	1.1	64	0	52	3.0	7.0	.0	3.4	--
SEP											
02...	7.8	.4	1.4	94	0	77	7.5	9.3	.3	7.4	--
06...	--	--	--	--	--	--	--	--	--	--	--

09205000 NEW FORK RIVER NEAR BIG PINEY, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)
OCT										
07...	--	--	--	--	--	--	--	--	--	--
14...	133	.18	107	--	.02	--	--	--	--	--
19...	136	.19	108	2	--	.02	.00	.00	.00	.11
NOV										
02...	--	--	--	--	--	--	--	--	--	--
DEC										
01...	138	.19	70.8	--	.02	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--
22...	130	.18	66.7	--	.11	--	--	--	--	--
JAN										
03...	--	--	--	--	--	--	--	--	--	--
22...	132	.18	65.9	--	.18	--	--	--	--	--
FEB										
01...	--	--	--	--	--	--	--	--	--	--
19...	121	.16	58.8	--	.09	--	--	--	--	--
MAR										
08...	--	--	--	--	--	--	--	--	--	--
18...	124	.17	97.1	--	.09	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
APR										
03...	--	--	--	--	--	--	--	--	--	--
30...	141	.19	178	--	.05	--	--	--	--	--
MAY										
04...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
27...	55	.07	238	--	.07	--	--	--	--	--
JUN										
12...	--	--	--	--	--	--	--	--	--	--
20...	49	.07	720	--	.32	--	--	--	--	--
JUL										
12...	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--
AUG										
01...	--	--	--	--	--	--	--	--	--	--
05...	68	.09	226	--	.02	--	--	--	--	--
SEP										
02...	160	.22	183	--	.41	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--

09205000 NEW FORK RIVER NEAR BIG PINEY, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	PHYTOPLANKTON, TOTAL (CELLS PER ML)	PERIPHYTON BIOMASS ASH WEIGHT G/SQ M
OCT										
07...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	.00	--	--	--	1100	7.24
19...	.08	.11	.03	.08	.01	.00	.00	.00	650	--
NOV										
02...	--	--	--	--	--	--	--	--	--	--
DEC										
01...	--	--	--	--	.00	--	--	--	380	--
01...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	.00	--	--	--	74	--
JAN										
03...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	.01	--	--	--	890	--
FEB										
01...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	.02	--	--	--	400	--
MAR										
08...	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	.08	--	--	--	190	--
27...	--	--	--	--	--	--	--	--	--	--
APR										
03...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	.01	--	--	--	930	--
MAY										
04...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	.06	--	--	--	1200	18.6
JUN										
12...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	.03	--	--	--	510	--
JUL										
12...	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--
AUG										
01...	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	.01	--	--	--	81	--
SEP										
02...	--	--	--	--	.18	--	--	--	66	.787
06...	--	--	--	--	--	--	--	--	--	--

09205000 NEW FORK RIVER NEAR BIG PINEY, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	IN-VERTE-BRATES, BENTHIC WET WT. (G/SQ METER)	BIOMASS CHLORO-PHYLL RATIO PLANK-TON (UNITS)	BIOMASS CHLORO-PHYLL RATIO PERI-PHYTON (UNITS)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L)	CHLOR-A PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	CHLOR-B PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
OCT										
07...	--	--	--	--	--	--	--	--	6	4.9
14...	8.19	--	.00	7273	.044	.029	.044	.038	--	--
19...	--	2.1	.00	--	.138	.133	--	--	4	3.2
NOV										
02...	--	--	--	--	--	--	--	--	6	5.2
DEC										
01...	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	8	4.1
22...	--	--	.00	--	.000	.000	--	--	--	--
JAN										
03...	--	--	--	--	--	--	--	--	6	3.2
22...	--	--	--	--	.000	.000	--	--	--	--
FEB										
01...	--	--	--	--	--	--	--	--	6	3.6
19...	--	--	4505	--	1.11	.000	--	--	--	--
MAR										
08...	--	--	--	--	--	--	--	--	8	5.5
18...	--	--	1976	--	2.53	.000	--	--	--	--
27...	--	--	--	--	--	--	--	--	34	34
APR										
03...	--	--	--	--	--	--	--	--	70	138
30...	--	--	34480	--	.290	.000	--	--	--	--
MAY										
04...	--	--	--	--	--	--	--	--	14	18
24...	--	--	--	--	--	--	--	--	80	266
27...	20.5	--	2315	113	2.16	.000	8.34	3.21	--	--
JUN										
12...	--	--	--	--	--	--	--	--	80	1040
20...	--	--	--	--	.000	.000	--	--	--	--
JUL										
12...	--	--	--	--	--	--	--	--	62	462
18...	--	--	--	--	--	--	--	--	46	332
AUG										
01...	--	--	--	--	--	--	--	--	13	54
05...	--	--		--	.000	.000	--	--	--	--
SEP										
02...	1.10	--		580	.000	.000	.690	.330	--	--
06...	--	--	--	--	--	--	--	--	4	4.3

DATE	TIME	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, DIS-SOLVED (UG/L AS CU)
OCT								
19...	1515	0	0	0	20	0	10	0

DATE	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT								
19...	30	0	4	.0	0	0	0	0

DATE	TIME	GROSS ALPHA, DIS-SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS-SOLVED (UG/L AS U)
OCT									
19...	1515	<1.2	<.4	2.6	.5	2.1	.4	.07	.7

09205000 NEW FORK RIVER NEAR BIG PINEY, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO SEPTEMBER 1978

DATE	OCT 14,77	OCT 19,77	DEC 1,77	DEC 22,77	JAN 22,78	FEB 19,78
TIME	1345	1515	1300	1230	1230	1300
TOTAL CELLS/ML	1100	650	380	74	890	400
DIVERSITY: DIVISION	1.3	1.1	1.3	1.0	1.0	0.6
.CLASS	1.3	1.1	1.3	1.0	1.0	0.6
..ORDER	2.3	1.3	1.5	1.0	1.0	0.9
...FAMILY	3.1	2.9	2.5	1.5	1.5	2.9
....GENUS	3.3	2.9	2.6	1.5	1.5	3.3

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)												
.CHLOROPHYCEAE												
..CHLOROCOCCALES												
...CHARACIACEAE												
....SCHROEDERIA	31	3	--	-	--	-	--	-	--	-	--	-
...COELASTRACEAE												
....COELASTRUM	--	-	--	-	27	7	--	-	--	-	--	-
...HYDRODICTYACEAE												
....PEDIASTRUM	--	-	180#	28	--	-	--	-	--	-	--	-
...MICRACTINIACEAE												
....MICRACTINIUM	--	-	--	-	--	-	--	-	--	-	--	-
...OOCYSTACEAE												
....ANKISTRODESMUS	41	4	90	14	5	1	--	-	--	-	14	4
....DICTYOSPHAERIUM	150	13	--	-	--	-	--	-	--	-	--	-
....OOCYSTIS	--	-	--	-	--	-	--	-	--	-	--	-
....SELENASTRUM	--	-	--	-	--	-	--	-	--	-	--	-
...SCENEDESMACEAE												
....SCENEDESMUS	41	4	170#	26	--	-	--	-	--	-	51	13
..ULOTRICHALES												
...ULOTRICHACEAE												
....ULOTHRIX	--	-	--	-	--	-	34#	46	--	-	--	-
..VOLVOCALES												
...CHLAMYDOMONADACEAE												
....CHLAMYDOMONAS	10	1	--	-	--	-	--	-	--	-	--	-
...VOLVOCACEAE												
....PANDORINA	330#	31	--	-	--	-	--	-	--	-	--	-
..ZYGNEMATALES												
...DESMIDIACEAE												
....COSMARIUM	--	-	--	-	--	-	--	-	--	-	--	-
...ZYGNEMATACEAE												
....MOUGEOTIA	21	2	--	-	--	-	--	-	--	-	--	-
CHRYSOPHYTA												
.BACILLARIOPHYCEAE												
..CENTRALES												
...COSCINODISCACEAE												
....COSCINODISCUS	--	-	--	-	--	-	--	-	--	-	--	-
....CYCLOTELLA	120	12	45	7	5	1	--	-	--	-	14	4
....MELOSIRA	--	-	--	-	11	3	--	-	--	-	--	-
....STEPHANODISCUS	--	-	--	-	--	-	--	-	--	-	--	-
..PENNALES												
...ACHNANTHACEAE												
....ACHNANTHES	10	1	--	-	--	-	--	-	--	-	--	-
....COCCONEIS	52	5	23	3	16	4	11#	15	--	-	42	11
....RHOICOSPHENIA	--	-	--	-	--	-	--	-	--	-	5	1
...CYMBELLACEAE												
....AMPHORA	--	-	--	-	--	-	--	-	89	10	--	-
....CYMBELLA	10	1	--	-	5	1	--	-	--	-	42	11
....EPITHEMIA	10	1	45	7	74#	20	--	-	--	-	89#	22
...DIATOMACEAE												
....DIATOMA	10	1	23	3	5	1	--	-	--	-	37	9
...EUNOTIACEAE												
....EUNOTIA	10	1	--	-	--	-	--	-	--	-	--	-
...FRAGILARIACEAE												
....ASTERIONELLA	--	-	--	-	--	-	--	-	--	-	5	1
....FRAGILARIA	--	-	--	-	--	-	--	-	--	-	--	-
....SYNEDRA	--	-	11	2	5	1	--	-	--	-	28	7
...GOMPHONEMATACEAE												
....GOMPHONEMA	--	-	23	3	11	3	--	-	45	5	28	7
...MERIDIONACEAE												
....MERIDION	--	-	--	-	--	-	--	-	--	-	--	-
...NAVICULACEAE												
....NAVICULA	41	4	23	3	21	6	--	-	220#	25	37	9
....NEIDIUM	--	-	--	-	--	-	--	-	--	-	--	-
....PINNULARIA	--	-	--	-	--	-	--	-	--	-	--	-
...NITZSCHIACEAE												
....NITZSCHIA	93	9	--	-	21	6	28#	38	--	-	5	1
.CHRYSOPHYCEAE												
..CHRYSOMONADALES												
...OCHROMONADACEAE												
....DINOBRYON	--	-	--	-	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

09205000 NEW FORK RIVER NEAR BIG PINEY, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO SEPTEMBER 1978

DATE TIME	OCT 14,77 1345		OCT 19,77 1515		DEC 1,77 1300		DEC 22,77 1230		JAN 22,78 1230		FEB 19,78 1300	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CYANOPHYTA (BLUE-GREEN ALGAE)												
.CYANOPHYCEAE												
..CHROOCOCCALES												
...CHROOCOCCACEAE												
....ANACYSTIS	--	-	--	-	--	-	--	-	--	-	--	-
..HORMOGONALES												
...NOSTOCACEAE												
....ANABAENA	--	-	--	-	--	-	--	-	--	-	--	-
....APHANIZOMENON	--	-	--	-	--	-	--	-	540#	60	--	-
...OSCILLATORIACEAE												
....OSCILLATORIA	93	9	--	-	170#	45	--	-	--	-	--	-
...RIVULARIACEAE												
....RAPHIDIOPSIS	--	-	--	-	--	-	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)												
.EUGLENOPHYCEAE												
..EUGLENALES												
...EUGLENACEAE	--	-	--	-	--	-	--	-	--	-	--	-
....EUGLENA	--	-	--	-	--	-	--	-	--	-	--	-
....TRACHELOMONAS	--	-	23	3	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

09205000 NEW FORK RIVER NEAR BIG PINEY, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO SEPTEMBER 1978

DATE	MAR 18,78	APR 30,78	MAY 27,78	JUN 20,78	AUG 5,78	SEP 2,78
TIME	1300	1315	1500	1330	1230	1315
TOTAL CELLS/ML	190	930	1200	510	81	56
DIVERSITY: DIVISION	0.5	1.2	1.1	0.4	1.2	1.2
.CLASS	0.5	1.2	1.5	0.4	1.2	1.2
..ORDER	0.7	1.6	1.6	0.4	1.6	1.9
...FAMILY	3.1	1.9	3.0	1.7	2.2	2.9
....GENUS	3.3	0.0	3.3	1.7	2.4	3.0

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)												
.CHLOROPHYCEAE												
..CHLOROCOCCALES												
...CHARACIACEAE												
....SCHROEDERIA	--	-	--	-	--	-	--	-	--	-	--	-
...COELASTRACEAE												
....COELASTRUM	--	-	--	-	--	-	--	-	--	-	--	-
...HYDRODICTYACEAE												
....PEDIASTRUM	--	-	--	-	--	-	290#	57	--	-	--	-
...MICRACTINIACEAE												
....MICRACTINIUM	--	-	300#	33	--	-	--	-	--	-	--	-
...OOCYSTACEAE												
....ANKISTRODESMUS	--	-	--	-	43	4	--	-	--	-	2	3
....DICTYOSPHAERIUM	--	-	--	-	--	-	--	-	--	-	--	-
....OOCYSTIS	--	-	--	-	--	-	59	11	--	-	--	-
....SELENASTRUM	--	-	19	2	--	-	--	-	--	-	--	-
...SCENEDESMACEAE												
....SCENEDESMUS	--	-	--	-	--	-	120#	23	--	-	7	11
..ULOTRICHALES												
...ULOTRICHACEAE												
....ULOTHRIX	--	-	--	-	--	-	--	-	--	-	--	-
..VOLVOCALES												
...CHLAMYDOMONADACEAE												
....CHLAMYDOMONAS	7	4	--	-	--	-	--	-	--	-	--	-
...VOLVOCACEAE												
....PANDORINA	--	-	--	-	--	-	--	-	--	-	--	-
..ZYGNEMATALES												
...DESMIDIACEAE												
....COSMARIUM	--	-	--	-	--	-	--	-	1	2	2	3
...ZYGNEMATACEAE												
....MOUGEOTIA	--	-	--	-	--	-	--	-	--	-	--	-
CHRYSOPHYTA												
.BACILLARIOPHYCEAE												
..CENTRALES												
...COSCINODISCACEAE												
....COSCINODISCUS	--	-	--	*	--	-	--	-	--	-	2	3
....CYCLOTELLA	7	4	460#	49	29	2	--	-	--	-	14#	22
....MELOSIRA	--	-	--	-	--	-	--	-	--	-	--	-
....STEPHANODISCUS	--	-	--	-	--	-	--	-	11	13	--	-
..PENNALES												
...ACHNANTHACEAE												
....ACHNANTHES	--	-	19	2	--	-	--	-	8	10	--	-
....COCCONEIS	15	8	--	-	72	6	--	-	7	8	14#	22
....RHOICOSPHENIA	--	-	--	-	--	-	--	-	--	-	--	-
...CYMBELLACEAE												
....AMPHORA	--	-	--	-	14	1	--	-	--	-	--	-
....CYMBELLA	15	8	38	4	100	8	15	3	--	-	--	-
....EPITHEMIA	36#	19	--	-	57	5	--	-	--	-	2	3
...DIATOMACEAE												
....DIATOMA	22	12	19	2	110	10	--	-	--	-	2	3
...EUNOTIACEAE												
....EUNOTIA	--	-	--	-	--	-	--	-	--	-	--	-
...FRAGILARIACEAE												
....ASTERIONELLA	--	-	--	-	--	-	--	-	--	-	--	-
....FRAGILARIA	--	-	--	-	--	-	29	6	--	-	--	-
....SYNEDRA	7	4	--	-	14	1	--	-	--	-	--	-
...GOMPHONEMATACEAE												
....GOMPHONEMA	29#	15	--	-	43	4	--	-	3	3	4	5
...MERIDIONACEAE												
....MERIDION	7	4	--	-	--	-	--	-	--	-	--	-
...NAVICULACEAE												
....NAVICULA	22	12	--	-	240#	20	--	-	4	5	--	-
....NEIDIUM	--	-	--	-	14	1	--	-	--	-	--	-
....PINNULARIA	--	-	--	-	14	1	--	-	--	-	--	-
...NITZSCHIACEAE												
....NITZSCHIA	15	8	38	4	14	1	--	-	5	7	9	14
.CHRYSOPHYCEAE												
..CHRYSOMONADALES												
...OCHROMONADACEAE												
....DINOBRYON	--	-	--	-	110	10	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

09205000 NEW FORK RIVER NEAR BIG PINEY, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO SEPTEMBER 1978

DATE TIME	MAR 18,78 1300		APR 30,78 1315		MAY 27,78 1500		JUN 20,78 1330		AUG 5,78 1230		SEP 2,78 1315	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CYANOPHYTA (BLUE-GREEN ALGAE)												
.CYANOPHYCEAE												
..CHROOCOCCALES												
...CHROOCOCCACEAE												
....ANACYSTIS	--	-	--	-	290#	24	--	-	--	-	--	-
..HORMOGONALES												
...NOSTOCACEAE												
....ANABAENA	--	-	--	-	--	-	--	-	40#	50	--	-
....APHANIZOMENON	--	-	--	-	--	-	--	-	--	-	--	-
...OSCILLATORIACEAE												
....OSCILLATORIA	--	-	--	-	--	-	--	-	--	-	--	-
...RIVULARIACEAE												
....RAPHIDIOPSIS	--	-	--	-	--	-	--	-	--	-	9	14
EUGLENOPHYTA (EUGLENOIDS)												
.EUGLENOPHYCEAE												
..EUGLENALES												
...EUGLENACEAE	--	-	38	4	--	-	--	-	--	-	--	-
....EUGLENA	7	4	--	-	--	-	--	-	1	2	--	-
....TRACHELOMONAS	--	-	--	-	14	1	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

09205000 NEW FORK RIVER NEAR BIG PINEY, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

OCT. 14, 1977
1345 HOURS

PERIPHYTON IDENTIFICATION

_ORGANISM__NAME_______________	_COMMON__NAME_______
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..CHLOROCOCCALES	
...COELASTRACEAE	
....COELASTRUM	
...OOCYSTACEAE	
....ANKISTRODESMUS	
...SCENEDESMACEAE	
....SCENEDESMUS	
..OEDOGONIALES	
...OEDOGONIACEAE	
& ....OEDOGONIUM	
..ULOTRICHALES	
...CHAETOPHORACEAE	
& ....DRAPARNALDIA	
...TRENTEPOHLIACEAE	
....GONGROSIRA	
...ULOTRICHACEAE	
....GEMINELLA	
& ....ULOTHRIX	
..ZYGNEMATALES	
...ZYGNEMATACEAE	
& ....MOUGEOTIA	
....SPIROGYRA	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..CENTRALES	CENTRIC
...COSCINODISCACEAE	
....CYCLOTELLA	
..PENNALES	PENNATE
...ACHNANTHACEAE	
....COCCONEIS	
....RHOICOSPHENIA	
...CYMBELLACEAE	
& ....CYMBELLA	
& ....EPITHEMIA	
...DIATOMACEAE	
....DIATOMA	
...FRAGILARIACEAE	
....FRAGILARIA	
....SYNEDRA	
...GOMPHONEMATACEAE	
....GOMPHONEIS	
....GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
....CALONEIS	
....NAVICULA	
....NEIDIUM	
...NITZSCHIACEAE	
....NITZSCHIA	
...SURIRELLACEAE	
....CYMATOPLEURA	
CYANOPHYTA	BLUE-GREEN ALGAE
.CYANOPHYCEAE	
..HORMOGONALES	FILAMENTOUS BL-GREEN
...NOSTOCACEAE	
....ANABAENA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
SAMPLING METHOD: PLASTIC SLIDES, TIMED SAMPLING INTERVAL
ANALYSIS METHOD: GLASS CHAMBER(12MM CIRC), 200-X MICROSCOPE

09205000 NEW FORK RIVER NEAR BIG PINEY, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

OCT. 19, 1977
1515 HOURS

IDENTIFICATION OF PERIPHYTON

ORGANISM NAME	COMMON NAME
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..CHLOROCOCCALES	
...COELASTRACEAE	
....COELASTRUM	
...OOCYSTACEAE	
....ANKISTRODESMUS	
...SCENEDESMACEAE	
....SCENEDESMUS	
..OEDOGONIALES	
...OEDOGONIACEAE	
....OEDOGONIUM	
..ULOTRICHALES	
...CHAETOPHORACEAE	
....STIGEOCLONIUM	
...ULOTRICHACEAE	
....GEMINELLA	
..ZYGNEMATALES	
...DESMIDIACEAE	PLACODERM DESMIDS
....CLOSTERIUM	
...ZYGNEMATACEAE	
....MOUGEOTIA	
....ZYGNEMA	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..CENTRALES	CENTRIC
...COSCINODISCACEAE	
....CYCLOTELLA	
....MELOSIRA	
..PENNALES	PENNATE
...ACHNANTHACEAE	
& ....COCCONEIS	
....RHOICOSPHENIA	
...CYMBELLACEAE	
....CYMBELLA	
& ....EPITHEMIA	
...DIATOMACEAE	
....DIATOMA	
...FRAGILARIACEAE	
....FRAGILARIA	
....SYNEDRA	
...GOMPHONEMATACEAE	
....GOMPHONEIS	
....GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
....GYROSIGMA	
& ....NAVICULA	
....NEIDIUM	
...NITZSCHIACEAE	
....NITZSCHIA	
...SURIRELLACEAE	
....CYMATOPLEURA	
CYANOPHYTA	BLUE-GREEN ALGAE
.CYANOPHYCEAE	
..HORMOGONALES	FILAMENTOUS BL-GREEN
...NOSTOCACEAE	
....ANABAENA	
...OSCILLATORIACEAE	
& ....LYNGBYA	
...RIVULARIACEAE	
....CALOTHRIX	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

09205000 NEW FORK RIVER NEAR BIG PINEY, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

MAY 27, 1978
1500 HOURS

IDENTIFICATION OF PERIPHYTON

_ORGANISM__NAME	_COMMON__NAME
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..ULOTRICHALES	
...MICROSPORACEAE	
& ....MICROSPORA	
..ZYGNEMATALES	
...ZYGNEMATACEAE	
....MOUGEOTIA	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...ACHNANTHACEAE	
....ACHNANTHES	
....COCCONEIS	
....RHOICOSPHENIA	
...CYMBELLACEAE	
& ....AMPHORA	
....CYMBELLA	
& ....EPITHEMIA	
....RHOPALODIA	
...DIATOMACEAE	
....DIATOMA	
...EUNOTIACEAE	
....EUNOTIA	
...FRAGILARIACEAE	
....FRAGILARIA	
....SYNEDRA	
...GOMPHONEMATACEAE	
....GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
....NAVICULA	
...SURIRELLACEAE	
....CYMATOPLEURA	
CYANOPHYTA	BLUE-GREEN ALGAE
.CYANOPHYCEAE	
..HORMOGONALES	FILAMENTOUS BL-GREEN
...OSCILLATORIACEAE	
....OSCILLATORIA	
EUGLENOPHYTA	EUGLENOIDS
.EUGLENOPHYCEAE	
..EUGLENALES	
...EUGLENACEAE	
....TRACHELOMONAS	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
SAMPLING METHOD: PLASTIC SLIDES, TIMED SAMPLING INTERVAL
ANALYSIS METHOD: GLASS CHAMBER(12MM CIRC), 200-X MICROSCOPE

SEP. 2, 1978
1315 HOURS

PERIPHYTON IDENTIFICATION

_ORGANISM__NAME	_COMMON__NAME
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..ULOTRICHALES	
...CHAETOPHORACEAE	
& ....STIGEOCLONIUM	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...ACHNANTHACEAE	
& ....COCCONEIS	
...CYMBELLACEAE	
& ....EPITHEMIA	
...DIATOMACEAE	
....DIATOMA	
...GOMPHONEMATACEAE	
....GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
....NAVICULA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
SAMPLING METHOD: PLASTIC SLIDES, TIMED SAMPLING INTERVAL
ANALYSIS METHOD: SLIDE MOUNTING, INVERTED MICROSCOPE

09205000 NEW FORK RIVER NEAR BIG PINEY, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

BENTHIC INVERTEBRATE ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 19,77
TIME	1515
TOTAL COUNT	386
DIVERSITY: PHYLUM	0.0
.CLASS	0.6
..ORDER	2.2
...FAMILY	2.7
....GENUS	3.9
....GENUS-INSECTA	3.8

ORGANISM	COUNT
ARTHROPODA (ARTHROPODS)	
.INSECTA	
..COLEOPTERA	
...ELMIDAE	
....HETERLIMNIUS	2
....OPTIOSERVUS	23
..DIPTERA	
...CHIRONOMIDAE	
....CONCHAPELOPIA	5
....CORYNONEURA	6
....EUKIEFFERIELLA	73
....ORTHOCLADIUS	9
....POTTHASTIA	6
....RHEOTANYTARSUS	41
....SPANIOTOMA	
......SPANIOTOMA SP. G	3
....TANYTARSUS	15
...EMPIDIDAE	
....HEMERODROMIA	3
...RHAGIONIDAE	
....ATHERIX	
......A.VARIEGATA	1
..EPHEMEROPTERA	
...BAETIDAE	
....PSEUDOCLOEON	3
...EPHEMERELLIDAE	
....EPHEMERELLA	12
...HEPTAGENIIDAE	
....CINYGMA	1
..PLECOPTERA	
...CHLOROPERLIDAE	
....UNKNOWN GENUS	27
...PTERONARCIDAE	
....PTERONARCELLA	1
..TRICHOPTERA	
...GLOSSOSOMATIDAE	
....AGAPETUS	1
...HYDROPSYCHIDAE	
....CHEUMATOPSYCHE	34
...HYDROPTILIDAE	
....HYDROPTILA	21
...LEPIDOSTOMATIDAE	
....LEPIDOSTOMA	1
...LEPTOCERIDAE	
....OECETIS	6
..PLECOPTERA	
...CHLOROPERLIDAE	
....ALLOPERLA	7
...PERLIDAE	
....ACRONEURIA	2
..TRICHOPTERA	
...HYDROPSYCHIDAE	
....HYDROPSYCHE	24
.ARACHNIDA	
..HYDRACARINA	
...UNKNOWN FAMILY	
....UNKNOWN GENUS #3	55
.INSECTA	
..DIPTERA	
...CHIRONOMIDAE	
....UNKNOWN GENUS #5	3
MOLLUSCA (MOLLUSCS)	
.GASTROPODA	
..BASOMMATOPHORA	
...PLANORBIDAE	
....GYRAULUS	1

09208000 LA BARGE CREEK NEAR LA BARGE MEADOWS RANGER STATION, WY

LOCATION.--Lat 42°30'30", long 110°40'10", in SE¼ sec.8, T.29 N., R.116 W., Lincoln County, Hydrologic Unit 14040101, Bridger National Forest, on right bank 0.5 mi (0.8 km) upstream from Crystal Creek, 2.0 mi (3.2 km) southeast of La Barge Meadows ranger station, and 29 mi (47 km) northwest of La Barge.

DRAINAGE AREA.--6.3 mi² (16.3 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1940 to September 1942, October 1950 to current year. Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder. Altitude of gage is 8,410 ft (2,563 m), from topographic map. Oct. 1, 1940, to Sept. 30, 1942, at site 300 ft (91 m) upstream at different datum. Oct. 31, 1950, to Aug. 30, 1972, on left bank at present datum.

REMARKS.--Records poor. No diversion above station.

AVERAGE DISCHARGE.--30 years, 14.2 ft^3/s (0.402 m^3/s), 10,290 acre-ft/yr (12.7 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 196 ft^3/s (5.55 m^3/s) June 9, 1972, gage height, 5.48 ft (1.670 m); maximum gage height, 7.08 ft (2.158 m) Nov. 26, 1967 (backwater from snow); minimum daily discharge, 1.3 ft^3/s (0.037 m^3/s) Jan. 29 to Feb. 2, 1963.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 120 ft^3/s (3.40 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	(m^3/s)	Gage height (ft)	(m)
May 28	2115	--	--	a6.24	1.902
June 15	1900	*181	5.13	5.37	1.637

a Backwater from ice and snow.

Minimum daily discharge, 2.1 ft^3/s (0.059 m^3/s) Dec. 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DFC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.7	3.7	2.9	3.7	3.9	3.2	4.8	6.2	39	96	16	7.6
2	3.2	3.7	3.0	3.7	3.9	2.8	4.6	6.7	40	92	15	7.6
3	3.5	3.7	3.1	3.7	3.7	2.8	4.5	8.4	45	88	15	7.1
4	3.2	3.7	3.0	4.2	3.7	2.8	4.3	9.2	54	78	14	7.1
5	3.5	3.9	2.9	4.2	3.7	2.8	4.2	8.4	63	70	14	6.7
6	5.1	4.2	2.8	4.2	3.7	3.0	4.1	7.6	70	65	14	6.7
7	5.5	3.9	2.7	3.9	3.7	3.0	4.2	6.7	80	62	13	7.1
8	4.5	3.5	2.6	3.9	3.7	3.5	4.2	6.2	90	58	13	7.6
9	4.2	2.8	2.5	3.9	3.7	3.5	4.2	6.7	100	56	13	6.7
10	4.2	3.0	2.4	3.7	3.7	3.5	4.2	10	110	54	13	7.1
11	4.2	3.2	2.3	3.7	3.7	3.5	4.5	10	97	50	12	8.8
12	3.9	3.2	2.2	3.9	3.5	3.7	4.8	9.5	93	46	12	8.8
13	3.9	3.2	2.1	3.9	3.5	3.7	4.8	10	114	42	14	8.8
14	3.9	3.2	2.2	3.9	3.5	3.9	4.5	12	129	39	15	8.8
15	3.7	3.5	2.5	3.9	3.5	3.9	4.5	16	142	37	12	8.0
16	3.7	3.2	2.5	3.9	3.5	3.9	4.5	22	140	36	12	8.2
17	3.7	3.0	2.5	3.7	3.5	3.9	4.8	32	138	34	12	8.8
18	4.2	3.2	2.6	3.9	3.7	3.9	4.8	28	135	31	11	9.8
19	3.9	3.2	2.6	3.9	3.7	3.9	4.5	24	128	29	10	9.3
20	3.9	3.2	2.8	3.9	3.5	3.9	3.9	28	124	27	10	8.8
21	3.9	3.5	3.2	3.9	3.5	3.9	4.2	34	120	27	9.6	9.2
22	3.7	3.1	3.2	3.9	3.5	3.9	3.7	40	127	24	10	10
23	3.7	3.0	3.5	3.9	3.2	4.2	3.9	46	128	23	9.6	9.6
24	3.7	2.9	3.7	3.9	3.2	4.2	3.9	43	127	21	8.8	8.8
25	3.7	2.7	3.7	3.9	3.2	4.2	4.5	40	123	20	8.8	8.0
26	3.7	2.6	3.7	3.9	3.2	4.2	6.2	40	108	19	8.4	7.1
27	3.7	2.7	3.7	3.9	3.2	4.5	7.6	40	101	18	8.4	7.1
28	3.7	2.8	3.7	3.9	3.2	4.6	7.6	45	99	18	8.0	6.7
29	3.9	2.8	3.7	3.9	---	4.6	7.6	47	100	18	7.6	6.2
30	3.9	2.8	3.7	3.9	---	4.7	7.1	42	98	17	7.6	6.2
31	3.7	---	3.7	3.7	---	4.7	---	38	---	17	7.6	---
TOTAL	120.9	97.1	91.7	120.4	99.2	116.8	145.2	722.6	3062	1312	354.4	238.3
MEAN	3.90	3.24	2.96	3.88	3.54	3.77	4.84	23.3	102	42.3	11.4	7.94
MAX	5.5	4.2	3.7	4.2	3.9	4.7	7.6	47	142	96	16	10
MIN	3.2	2.6	2.1	3.7	3.2	2.8	3.7	6.2	39	17	7.6	6.2
AC-FT	240	193	182	239	197	232	288	1430	6070	2600	703	473

CAL YR 1977 TOTAL 1941.5 MEAN 5.32 MAX 21 MIN 2.1 AC-FT 3850
WTR YR 1978 TOTAL 6480.6 MEAN 17.8 MAX 142 MIN 2.1 AC-FT 12850

09208000 LA BARGE CREEK NEAR LA BARGE MEADOWS RANGER STATION, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1976 to September 1978 (discontinued).

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NFSS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
OCT											
04...	1130	3.0	350	--	4.5	1	--	--	--	--	--
NOV											
03...	1425	3.9	340	--	2.0	1	--	--	--	--	--
DEC											
13...	1115	2.3	--	--	.0	2	--	--	--	--	--
JAN											
25...	1350	A3.9	145	--	.5	1	--	--	--	--	--
MAR											
01...	0915	3.2	210	--	.5	1	--	--	--	--	--
APR											
20...	1100	4.2	320	--	2.0	2	--	--	--	--	--
MAY											
25...	0850	39	160	--	1.0	7	--	120	17	32	8.7
JUN											
12...	1420	89	130	--	11.0	7	--	110	1	31	7.3
23...	1225	126	190	--	8.5	5	--	--	--	--	--
27...	1050	96	270	8.4	7.0	3	8.8	120	10	35	9.0
JUL											
10...	1020	54	240	--	6.5	--	--	150	22	40	11
31...	1515	17	295	--	14.0	--	--	--	--	--	--
AUG											
03...	1930	15	280	8.2	13.0	1	8.2	210	30	58	16
10...	1420	12	300	--	11.0	1	--	--	--	--	--
SEP											
01...	1345	8.8	300	--	10.5	1	--	150	21	41	12

A-Daily mean discharge.

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	PUTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BUNATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
OCT											
04...	--	--	--	--	--	--	--	--	--	--	--
NOV											
03...	--	--	--	--	--	--	--	--	--	--	--
DEC											
13...	--	--	--	--	--	--	--	--	--	--	--
JAN											
25...	--	--	--	--	--	--	--	--	--	--	--
MAR											
01...	--	--	--	--	--	--	--	--	--	--	--
APR											
20...	--	--	--	--	--	--	--	--	--	--	--
MAY											
25...	1.0	.0	.4	120	0	98	15	.6	.1	5.3	122
JUN											
12...	1.4	.1	.4	130	0	110	12	.6	.1	5.4	123
23...	--	--	--	--	--	--	--	--	--	--	--
27...	1.2	.0	.3	140	0	110	13	.5	.1	4.8	133
JUL											
10...	1.0	.0	.3	150	0	120	14	.7	.1	5.3	147
31...	--	--	--	--	--	--	--	--	--	--	--
AUG											
03...	3.3	.1	.8	220	0	180	31	2.6	.2	6.8	227
10...	--	--	--	--	--	--	--	--	--	--	--
SEP											
01...	2.3	.1	.4	160	0	130	28	.7	.2	5.7	170

09208000 LA BARGE CREEK NEAR LA BARGE MEADOWS RANGER STATION, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)
OCT											
04...	--	--	--	--	--	--	--	--	--	--	--
NOV											
03...	--	--	--	--	--	--	--	--	--	--	--
DEC											
13...	--	--	--	--	--	--	--	--	--	--	--
JAN											
25...	--	--	--	--	--	--	--	--	--	--	--
MAR											
01...	--	--	--	--	--	--	--	--	--	--	--
APR											
20...	--	--	--	--	--	--	--	--	--	--	--
MAY											
25...	.17	12.8	--	--	--	--	--	.03	.02	--	--
JUN											
12...	.17	29.6	.14	--	--	--	--	--	.02	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
27...	.18	34.5	.03	.02	.03	.33	.35	.03	.03	.03	.09
JUL											
10...	.20	21.4	.11	--	--	--	--	.02	.02	--	--
31...	--	--	--	--	--	--	--	--	--	--	--
AUG											
03...	.31	9.19	.04	.01	.01	.51	.52	.03	.04	.03	.09
10...	--	--	--	--	--	--	--	--	--	--	--
SEP											
01...	.23	4.04	.06	--	--	--	--	.03	.02	.01	.03

DATE	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)	IN- VERTE- BRATES, BENTHIC WET WT. (G/SQ METER)	BIOMASS CHLORO- PHYLL RATIO PLANK- TON (UNITS)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDED (T/DAY)
OCT										
04...	--	--	--	--	--	--	--	--	3	.02
NOV										
03...	--	--	--	--	--	--	--	--	4	.04
DEC										
13...	--	--	--	--	--	--	--	--	22	.14
JAN										
25...	--	--	--	--	--	--	--	--	2	.02
MAR										
01...	--	--	--	--	--	--	--	--	3	.03
APR										
20...	--	--	--	--	--	--	--	--	6	.07
MAY										
25...	2	30	70	--	--	--	--	--	11	1.2
JUN										
12...	9	20	10	--	--	--	--	--	66	16
23...	--	--	--	--	--	--	--	--	30	10
27...	10	60	20	590	1.9	353900	.425	.049	--	--
JUL										
10...	10	130	40	--	--	--	--	--	13	1.9
31...	--	--	--	--	--	--	--	--	8	.37
AUG										
03...	8	20	20	190	--	205200	.716	.423	7	.28
10...	--	--	--	--	--	--	--	--	6	.19
SEP										
01...	20	80	120	--	--	--	--	--	4	.10

DATE	TIME	TEMPER- ATURE (DEG C)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	NUMBER OF SAM- PLING POINTS	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM
SEP								
01...	1345	10.5	8.8	100	5	31	85	100

09208000 LA BARGE CREEK NEAR LA BARGE MEADOWS RANGER STATION, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO AUGUST 1978

DATE	JUN 27,78	AUG 3,78
TIME	1050	1930
TOTAL CELLS/ML	590	190
DIVERSITY: DIVISION	1.1	1.0
.CLASS	1.1	1.0
..ORDER	1.2	1.0
...FAMILY	1.5	1.3
....GENUS	1.5	1.3

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)				
.CHLOROPHYCEAE				
..ULOTRICHALES				
...MICROSPORACEAE				
....CYLINDROCAPSA	--	-	140#	70
..VOLVOCALES				
...CHLAMYDOMONADACEAE				
....CHLAMYDOMONAS	21	4	--	-
CHRYSOPHYTA				
.BACILLARIOPHYCEAE				
..CENTRALES				
...COSCINODISCACEAE				
....CYCLOTELLA	16	3	--	-
..PENNALES				
...CYMBELLACEAE				
....CYMBELLA	16	3	--	-
...FRAGILARIACEAE				
....SYNEDRA	32	5	--	-
...NAVICULACEAE				
....NAVICULA	69	12	--	-
...NITZSCHIACEAE				
....NITZSCHIA	5	1	4	2
...SURIRELLACEAE				
....SURIRELLA	--	-	4	2
CRYPTOPHYTA (CRYPTOMONADS)				
.CRYPTOPHYCEAE				
..CRYPTOMONADALES				
...CRYPTOCHRYSIDACEAE				
....CHROOMONAS	5	1	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)				
.CYANOPHYCEAE				
..HORMOGONALES				
...NOSTOCACEAE				
....ANABAENA	--	-	14	7
...OSCILLATORIACEAE				
....OSCILLATORIA	430#	72	36#	19

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

09208000 LA BARGE CREEK NEAR LA BARGE MEADOWS RANGER STATION, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

JUNE 27, 1978
1050 HOURS

PERIPHYTON IDENTIFICATION

_ORGANISM__NAME_______________	_COMMON__NAME______
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..ULOTRICHALES	
...ULOTRICHACEAE	
....ULOTHRIX	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...ACHNANTHACEAE	
....ACHNANTHES	
....COCCONEIS	
...CYMBELLACEAE	
& ....CYMBELLA	
....RHOPALODIA	
...DIATOMACEAE	
....DIATOMA	
...FRAGILARIACEAE	
....FRAGILARIA	
....HANNAEA	
....SYNEDRA	
...GOMPHONEMATACEAE	
....GOMPHONEMA	
...MERIDIONACEAE	
....MERIDION	
...NAVICULACEAE	NAVICULOID
....DIPLONEIS	
& ....NAVICULA	
...NITZSCHIACEAE	
....NITZSCHIA	
...SURIRELLACEAE	
....SURIRELLA	
CYANOPHYTA	BLUE-GREEN ALGAE
.CYANOPHYCEAE	
..HORMOGONALES	FILAMENTOUS BL-GREEN
...OSCILLATORIACEAE	
....OSCILLATORIA	
...SCYTONEMATACEAE	
....PLECTONEMA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: GLASS CHAMBER(12MM CIRC), INVERTED MICROSCOPE

09208000 LA BARGE CREEK NEAR LA BARGE MEADOWS RANGER STATION, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOCICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

AUG. 3, 1978
1930 HOURS

PERIPHYTON IDENTIFICATION

_ORGANISM__NAME_______________	_COMMON__NAME______
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..ULOTRICHALES	
...ULOTRICHACEAE	
& ....ULOTHRIX	
..ZYGNEMATALES	
...DESMIDIACEAE	PLACODERM DESMIDS
....CLOSTERIUM	
...ZYGNEMATACEAE	
....SPIROGYRA	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..CENTRALES	CENTRIC
...COSCINODISCACEAE	
....MELOSIRA	
..PENNALES	PENNATE
...ACHNANTHACEAE	
....ACHNANTHES	
....COCCONEIS	
...CYMBELLACEAE	
....AMPHORA	
....CYMBELLA	
....EPITHEMIA	
...DIATOMACEAE	
....DIATOMA	
...FRAGILARIACEAE	
....FRAGILARIA	
....HANNAEA	
....SYNEDRA	
...GOMPHONEMATACEAE	
....GOMPHONEMA	
...MERIDIONACEAE	
....MERIDION	
...NAVICULACEAE	NAVICULOID
....CALONEIS	
....GYROSIGMA	
....NAVICULA	
...NITZSCHIACEAE	
& ....NITZSCHIA	
...SURIRELLACEAE	
....CYMATOPLEURA	
....SURIRELLA	
CYANOPHYTA	BLUE-GREEN ALGAE
.CYANOPHYCEAE	
..HORMOGONALES	FILAMENTOUS BL-GREEN
...OSCILLATORIACEAE	
& ....OSCILLATORIA	
...SCYTONEMATACEAE	
....PLECTONEMA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: GLASS CHAMBER(12MM CIRC), INVERTED MICROSCOPE

09208000 LA BARGE CREEK NEAR LA BARGE MEADOWS RANGER STATION, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

BENTHIC INVERTEBRATE ANALYSES, OCTOBER 1977 TO JUNE 1978

DATE	JUN 27,78
TIME	1050
TOTAL COUNT	32
DIVERSITY: PHYLUM	0.0
.CLASS	0.0
..ORDER	1.4
...FAMILY	2.5
....GENUS	2.9
....GENUS-INSECTA	2.9

ORGANISM	COUNT
ARTHROPODA (ARTHROPODS)	
.INSECTA	
..COLEOPTERA	
...ELMIDAE	
....HETERLIMNIUS	2
..DIPTERA	
...CHIRONOMIDAE	
....CHIRONOMUS	1
....CONCHAPELOPIA	1
....CRICOTOPUS	1
....DIAMESA	1
....DIPLOCLADIUS	1
...SIMULIIDAE	
....SIMULIUM	14
...TIPULIDAE	
....UNKNOWN GENUS	1
..EPHEMEROPTERA	
...BAETIDAE	
....BAETIS	3
...EPHEMERELLIDAE	
....EPHEMERELLA	2
...HEPTAGENIIDAE	
....STENONEMA	3
..TRICHOPTERA	
...RHYACOPHILIDAE	
....RHYACOPHILA	1
...UNKNOWN FAMILY	
....UNKNOWN GENUS	1

09209400 GREEN RIVER NEAR LA BARGE, WY

LOCATION.--Lat 42°11'34", long 110°09'45", in SE¼SE¼NW¼ sec.33, T.26 N., R.112 W., Lincoln County, Hydrologic Unit 14040101, on right bank 1.7 mi (2.7 km) upstream from high-water line of Fontenelle Reservoir at elevation 6,513 ft (1,985.2 m), 4.0 mi (6.4 km) upstream from Muddy Creek, and 5.0 mi (8.0 km) south of La Barge.

DRAINAGE AREA.--3,910 mi^2 (10,130 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1963 to current year. Records are equivalent to those published August 1946 to March 1965 as Green River near Fontenelle (sta 09209500).

GAGE.--Water-stage recorder. Altitude of gage is 6,520 ft (1,987 m), from topographic map.

REMARKS.--Records good except those for winter period, which are poor. Natural flow of stream affected by storage reservoirs and diversions for irrigation of about 198,000 acres (801 km^2) above station.

AVERAGE DISCHARGE.--32 years (water years 1947-78), 1,648 ft^3/s (46.67 m^3/s), 1,194,000 acre-ft/yr (1,472 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,000 ft^3/s (510 m^3/s) June 11, 1972, gage height, 10.34 ft (3.152 m); minimum daily, 188 ft^3/s (5.32 m^3/s) May 17, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 10,700 ft^3/s (303 m^3/s) June 18, gage height, 8.80 ft (2.682 m); minimum daily, 410 ft^3/s (11.6 m^3/s) Feb. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	546	537	520	490	490	500	2030	1960	4090	8380	3740	1150
2	555	546	500	490	500	500	2090	2140	3660	8530	3440	1020
3	555	555	500	480	510	480	1900	2120	3990	8380	3150	982
4	555	564	520	490	520	460	1710	2260	4440	7940	2930	956
5	555	573	540	490	520	450	1610	2240	4640	7620	2780	930
6	564	573	540	490	520	460	1540	2020	4500	7230	2630	918
7	600	582	520	490	520	480	1510	1810	4830	6650	2490	930
8	620	570	500	490	510	490	1580	1660	5600	5920	2330	969
9	610	520	480	480	510	500	1710	1560	6650	5480	2260	969
10	620	470	480	480	500	510	1710	1580	7730	5420	2110	995
11	610	520	480	490	490	510	1720	1790	8950	5510	2010	1020
12	600	560	480	500	480	510	1760	2030	9660	5420	1900	1070
13	600	560	490	500	470	500	1710	2050	8570	5480	1960	1090
14	582	540	500	490	450	480	1620	1980	7510	5420	2220	1100
15	573	520	520	480	440	460	1530	2160	4980	5330	2330	1090
16	582	520	510	480	430	450	1530	2570	8990	5360	2240	1050
17	582	520	500	470	420	500	1580	3470	9940	5420	2050	995
18	582	500	500	470	410	560	1480	3760	10500	5390	1930	1140
19	582	480	490	460	420	640	1360	3680	10200	5480	1810	1230
20	564	440	480	460	440	720	1320	3240	9420	5330	1710	1200
21	582	420	470	460	460	820	1320	3010	8680	5030	1590	1190
22	582	450	470	460	480	860	1320	3120	8160	4940	1480	1140
23	582	480	480	450	490	860	1260	3330	8380	4800	1400	1070
24	573	500	490	440	500	820	1200	3640	8990	4470	1340	1050
25	564	520	500	450	520	780	1200	3840	9500	4090	1300	1010
26	564	540	520	450	520	760	1230	4010	9860	3710	1270	982
27	555	540	500	460	520	860	1390	3990	9860	3540	1230	956
28	537	540	490	470	510	1000	1640	3840	8760	3490	1190	906
29	537	540	490	470	---	1200	1660	3940	7840	3640	1140	870
30	537	540	490	480	---	1360	1830	4300	7940	3810	1120	846
31	546	---	490	490	---	1610	---	4500	---	3780	1100	---
TOTAL	17796	15720	15440	14750	13550	21090	47050	87600	226820	170990	62180	30824
MEAN	574	524	498	476	484	680	1568	2826	7561	5516	2006	1027
MAX	620	582	540	500	520	1610	2090	4500	10500	8530	3740	1230
MIN	537	420	470	440	410	450	1200	1560	3660	3490	1100	846
AC-FT	35300	31180	30630	29260	26880	41830	93320	173800	449900	339200	123300	61140

CAL YR 1977 TOTAL 231385 MEAN 634 MAX 3640 MIN 188 AC-FT 459000
WTR YR 1978 TOTAL 723810 MEAN 1983 MAX 10500 MIN 410 AC-FT 1436000

09209400 GREEN RIVER NEAR LA BARGE, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1964 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
OCT												
05...	1630	555	380	--	12.0	3	--	--	--	--	--	--
14...	1510	582	320	8.2	9.0	5	10.0	K5	150	27	43	11
19...	1715	573	--	--	--	--	--	--	--	--	--	--
20...	1415	573	360	--	7.0	6	--	--	--	--	--	--
NOV												
03...	1700	555	380	--	4.5	3	--	--	--	--	--	--
29...	1100	A540	370	--	.0	3	--	--	--	--	--	--
DEC												
01...	1440	520	380	8.0	.0	4	10.4	K2	150	2	42	12
22...	1340	A470	350	7.7	.0	2	10.2	K4	160	29	46	12
30...	1245	A490	480	--	.0	2	--	--	--	--	--	--
JAN												
22...	1400	A460	370	7.8	.0	1	--	K1	160	29	43	14
FEB												
01...	1700	A490	470	--	.0	2	--	--	--	--	--	--
19...	1430	A420	300	7.6	.0	1	10.3	K1	170	31	48	13
MAR												
09...	1415	A500	400	--	.0	5	--	--	--	--	--	--
18...	1415	A560	440	7.7	.5	3	10.5	K2	180	32	48	15
31...	1340	1540	--	--	5.0	--	--	--	200	41	46	20
APR												
04...	1200	1670	490	--	6.0	30	--	--	--	--	--	--
30...	1145	1840	370	8.3	6.5	140	9.5	K350	330	180	47	12
MAY												
02...	1400	2160	430	--	8.5	35	--	--	--	--	--	--
23...	1700	3420	320	--	16.0	40	--	--	--	--	--	--
27...	1630	3990	300	8.1	12.0	25	9.0	K20	130	15	37	9.5
JUN												
08...	1700	5790	240	--	16.0	60	--	--	--	--	--	--
15...	1445	8050	220	--	15.5	25	--	--	--	--	--	--
20...	1500	9300	280	8.1	14.0	20	8.6	50	100	2	28	8.3
23...	1430	8450	250	--	17.0	20	--	--	--	--	--	--
27...	1250	9940	230	--	15.0	20	--	--	--	--	--	--
JUL												
10...	1430	5480	280	--	18.0	10	--	--	--	--	--	--
26...	1330	3680	260	--	20.5	--	--	--	--	--	--	--
AUG												
05...	1400	2760	260	8.4	20.0	4	8.4	23	100	2	25	9.0
29...	1700	1120	280	--	19.5	2	--	--	--	--	--	--
SEP												
02...	1440	1020	300	8.3	22.0	1	8.3	K8	140	25	37	11

A-Daily mean discharge.
K-Results based on colony count outside the acceptable range (non-ideal colony count).

09209400 GREEN RIVER NEAR LA BARGE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
OCT												
05...	--	--	--	--	--	--	--	--	--	--	--	--
14...	19	.7	1.8	150	0	120	51	6.1	.3	7.7	215	.29
19...	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
03...	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
01...	30	1.1	1.6	180	0	150	62	4.9	.3	3.5	246	.33
22...	18	.6	1.5	160	0	130	55	7.9	.3	11	233	.32
30...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
22...	15	.5	1.2	160	0	130	56	3.2	.3	15	226	.31
FEB												
01...	--	--	--	--	--	--	--	--	--	--	--	--
19...	16	.5	1.6	170	0	140	54	9.0	.2	8.1	233	.32
MAR												
09...	--	--	--	--	--	--	--	--	--	--	--	--
18...	20	.6	1.2	180	0	150	73	3.9	.3	7.3	255	.35
31...	75	2.3	2.9	190	0	160	200	12	--	7.8	458	.62
APR												
04...	--	--	--	--	--	--	--	--	--	--	--	--
30...	17	.6	1.6	180	0	150	55	1.1	.2	.0	223	.30
MAY												
02...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
27...	7.6	.3	1.3	140	0	120	33	1.7	.2	5.8	239	.33
JUN												
08...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--
20...	7.1	.3	.1	120	0	98	23	2.2	.2	3.9	132	.18
23...	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
10...	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
05...	8.1	.4	1.2	120	0	98	24	2.2	.1	1.9	128	.17
29...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
02...	11	.4	1.2	140	0	120	36	3.7	.3	5.2	246	.33

09209400 GREEN RIVER NEAR LA BARGE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SOLIDS, DIS-SOLVED (TONS PER DAY)	SOLIDS, SUSP. TOTAL, RESIDUE AT 110 DEG. C (MG/L)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS NO3)
OCT												
05...	--	--	--	--	--	--	--	--	--	--	--	--
14...	338	3	.05	.17	--	.03	.40	.43	--	--	.60	2.7
19...	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
03...	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
01...	345	8	.02	.07	--	.10	.33	.43	--	--	.50	2.2
22...	296	12	.07	.04	--	.04	.15	.19	--	--	.23	1.0
30...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
22...	281	18	.09	.09	--	.08	.28	.36	--	--	.45	2.0
FEB												
01...	--	--	--	--	--	--	--	--	--	--	--	--
19...	264	8	.16	.12	--	.11	.05	.16	--	--	.28	1.2
MAR												
09...	--	--	--	--	--	--	--	--	--	--	--	--
18...	386	13	.05	.23	--	.03	.12	.15	--	--	.38	1.7
31...	1900	--	--	--	.02	--	--	.97	.75	.22	--	--
APR												
04...	--	--	--	--	--	--	--	--	--	--	--	--
30...	1110	316	.07	.08	--	.13	.73	.86	--	--	.94	4.2
MAY												
02...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
27...	2570	64	.63	.07	--	.03	1.4	1.4	--	--	1.5	6.5
JUN												
08...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--
20...	3310	45	.00	.05	--	.05	1.3	1.3	--	--	1.4	6.0
23...	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
10...	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
05...	954	5	.07	.05	--	.00	.91	.91	--	--	.96	4.3
29...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
02...	677	14	.02	.03	--	.02	.66	.68	--	--	.71	3.1

09209400 GREEN RIVER NEAR LA BARGE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C)	PHYTO-PLANK-TON, TOTAL (CELLS PER ML)	IN-VERTE-BRATES, BENTHIC WET WT. (G/SQ METER)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
OCT											
05...	--	--	--	--	--	--	--	--	--	7	10
14...	.00	--	--	2.8	.4	--	--	--	--	--	--
19...	--	--	--	--	--	330	1.0	.038	.011	--	--
20...	--	--	--	--	--	--	--	--	--	9	14
NOV											
03...	--	--	--	--	--	--	--	--	--	8	12
29...	--	--	--	--	--	--	--	--	--	13	19
DEC											
01...	.00	--	--	--	--	--	--	--	--	--	--
22...	.00	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	11	15
JAN											
22...	.00	--	--	--	--	--	--	--	--	--	--
FEB											
01...	--	--	--	--	--	--	--	--	--	7	9.3
19...	.01	--	--	--	--	--	--	--	--	--	--
MAR											
09...	--	--	--	--	--	--	--	--	--	16	22
18...	.07	--	--	--	--	--	--	--	--	--	--
31...	.04	.00	.00	--	--	--	--	--	--	--	--
APR											
04...	--	--	--	--	--	--	--	--	--	122	550
30...	.02	--	--	--	--	--	--	--	--	--	--
MAY											
02...	--	--	--	--	--	--	--	--	--	162	945
23...	--	--	--	--	--	--	--	--	--	113	1040
27...	.15	--	--	--	--	--	--	--	--	--	--
JUN											
08...	--	--	--	--	--	--	--	--	--	412	6440
15...	--	--	--	--	--	--	--	--	--	188	--
20...	.02	--	--	6.8	1.0	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	157	3580
27...	--	--	--	--	--	--	--	--	--	181	4860
JUL											
10...	--	--	--	--	--	--	--	--	--	73	1080
26...	--	--	--	--	--	--	--	--	--	31	308
AUG											
05...	.02	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	12	36
SEP											
02...	.03	--	--	--	--	--	--	--	--	--	--

09209400 GREEN RIVER NEAR LA BARGE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, SUSPENDED RECOV. (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUSPENDED TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	BERYLLIUM, SUSPENDED RECOV. (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BORON, TOTAL RECOVERABLE (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)
OCT												
14...	1510	220	210	10	0	0	0	0	0	20	50	10
DEC												
01...	1440	--	--	--	--	--	--	--	--	--	70	--
22...	1340	--	--	--	--	--	--	--	--	--	80	--
JAN												
22...	1400	--	--	--	--	--	--	--	--	--	60	--
FEB												
19...	1430	--	--	--	--	--	--	--	--	--	50	--
MAR												
18...	1415	--	--	--	--	--	--	--	--	--	60	--
31...	1340	--	--	--	--	--	--	--	--	--	--	--
APR												
30...	1145	--	--	--	--	--	--	--	--	--	70	--
MAY												
27...	1430	--	--	--	--	--	--	--	--	--	70	--
JUN												
20...	1500	100	80	20	2	1	1	0	0	0	80	2
AUG												
05...	1400	--	--	--	--	--	--	--	--	--	80	--
SEP												
02...	1440	--	--	--	--	--	--	--	--	--	50	--

DATE	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)
OCT												
14...	5	5	10	0	10	<10	<9	1	320	--	30	<100
DEC												
01...	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
22...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
19...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
18...	--	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	80	--
APR												
30...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
27...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
20...	1	1	0	0	0	9	6	3	1300	1300	50	19
AUG												
05...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
02...	--	--	--	--	--	--	--	--	--	--	--	--

09209400 GREEN RIVER NEAR LA BARGE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	LITHIUM SUSPENDED RECOVERABLE (UG/L AS LI)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, SUSPENDED RECOV. (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY SUSPENDED RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)
OCT												
14...	<100	0	9	9	0	20	10	10	.0	.0	.0	5
DEC												
01...	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
22...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
19...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
18...	--	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
30...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
27...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
20...	13	6	7	2	5	70	70	0	.0	.0	.0	4
AUG												
05...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
02...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	MOLYBDENUM, SUSPENDED RECOV. (UG/L AS MO)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, SUSPENDED RECOVERABLE (UG/L AS NI)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, SUSPENDED TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)
OCT												
14...	4	1	<50	<47	3	0	0	0	.6	30	20	10
DEC												
01...	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
22...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
19...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
18...	--	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
30...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
27...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
20...	1	3	3	3	0	0	0	0	1.9	20	20	5
AUG												
05...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
02...	--	--	--	--	--	--	--	--	--	--	--	--

09209400 GREEN RIVER NEAR LA BARGE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	PCB, TOTAL (UG/L)	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG)	NAPHTHALENES, POLYCHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	CHLORDANE, TOTAL (UG/L)	CHLORDANE, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDD, TOTAL (UG/L)
OCT 18...	1145	582	7.0	--	0	--	--	.0	--	0	--
MAY 21...	1110	3040	12.0	.0	0	.00	.00	.0	.0	0	.00

DATE	DDD, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDE, TOTAL (UG/L)	DDE, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOTTOM MATERIAL (UG/KG)	DIAZINON, TOTAL (UG/L)	DIELDRIN TOTAL (UG/L)	DIELDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	ENDOSULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)
OCT 18...	.0	--	.0	--	.0	--	--	.0	--	--	.0
MAY 21...	.0	.00	.0	.00	.0	.00	.00	.0	.00	.00	.0

DATE	ETHION, TOTAL (UG/L)	HEPTACHLOR, TOTAL (UG/L)	HEPTACHLOR, TOTAL IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR EPOXIDE TOTAL (UG/L)	HEPTACHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOTTOM MATERIAL (UG/KG)	MALATHION, TOTAL (UG/L)	METHYL PARATHION, TOTAL (UG/L)	METHYL TRITHION, TOTAL (UG/L)
OCT 18...	--	--	.0	--	.0	--	.0	--	--	--
MAY 21...	.00	.00	.0	.00	.0	.00	.0	.00	.00	.00

DATE	PARATHION, TOTAL (UG/L)	TOXAPHENE, TOTAL (UG/L)	TOXAPHENE, TOTAL IN BOTTOM MATERIAL (UG/KG)	TOTAL TRITHION (UG/L)	2,4-D, TOTAL (UG/L)	2,4-D, TOTAL IN BOTTOM MATERIAL (UG/KG)	2,4,5-T TOTAL (UG/L)	2,4,5-T TOTAL IN BOTTOM MATERIAL (UG/KG)	SILVEX, TOTAL (UG/L)	SILVEX, TOTAL IN BOTTOM MATERIAL (UG/KG)
OCT 18...	--	--	0	--	.00	--	.00	--	.00	--
MAY 21...	.00	0	0	.00	.00	0	.00	0	.00	.0

DATE	TOTAL DICAMBA (UG/L)	DICAMBA IN BOTTOM MATERIAL (UG/KG)	TOTAL PICLORAM (UG/L)	PICLORAM IN BOTTOM MATERIAL (UG/KG)
MAY 21...	.00	0	.00	0

09209400 GREEN RIVER NEAR LA BARGE, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 19,77
TIME	1715
TOTAL CELLS/ML	330
DIVERSITY: DIVISION	1.5
.CLASS	1.5
..ORDER	1.8
...FAMILY	2.9
....GENUS	3.0

ORGANISM	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...OOCYSTACEAE		
....ANKISTRODESMUS	18	5
...SCENEDESMACEAE		
....SCENEDESMUS	84#	25
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..CENTRALES		
...COSCINODISCACEAE		
....CYCLOTELLA	18	5
..PENNALES		
...ACHNANTHACEAE		
....COCCONEIS	22	7
....RHOICOSPHENIA	9	3
...CYMBELLACEAE		
....EPITHEMIA	18	5
...DIATOMACEAE		
....DIATOMA	9	3
...FRAGILARIACEAE		
....SYNEDRA	13	4
...GOMPHONEMATACEAE		
....GOMPHONEMA	13	4
...NAVICULACEAE		
....NAVICULA	49	15
CYANOPHYTA (BLUE-GREEN ALGAE)		
.CYANOPHYCEAE		
..HORMOGONALES		
...OSCILLATORIACEAE		
....OSCILLATORIA	80#	24

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

09209400 GREEN RIVER NEAR LA BARGE, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

OCT. 19, 1977
1715 HOURS

IDENTIFICATION OF PERIPHYTON

	_ORGANISM__NAME	_COMMON__NAME
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..ULOTRICHALES	
	...ULOTRICHACEAE	
	....GEMINELLA	
	..ZYGNEMATALES	
	...ZYGNEMATACEAE	
	....MOUGEOTIA	
	....SPIROGYRA	
	....ZYGNEMA	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
&	....COCCONEIS	
	...CYMBELLACEAE	
	....AMPHORA	
&	....EPITHEMIA	
	...DIATOMACEAE	
	....DIATOMA	
	...FRAGILARIACEAE	
	....FRAGILARIA	
	...GOMPHONEMATACEAE	
&	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
&	....NAVICULA	
	...NITZSCHIACEAE	
	....CYLINDROTHECA	
	....NITZSCHIA	
	...SURIRELLACEAE	
	....CYMATOPLEURA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.CYANOPHYCEAE	
	..HORMOGONALES	FILAMENTOUS BL-GREEN
	...OSCILLATORIACEAE	
	....LYNGBYA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

MAY 27, 1978
1630 HOURS

IDENTIFICATION OF PERIPHYTON

	_ORGANISM__NAME	_COMMON__NAME
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
&	....COCCONEIS	
	...EUNOTIACEAE	
	....EUNOTIA	
	...GOMPHONEMATACEAE	
	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
	....GYROSIGMA	
&	....NAVICULA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.CYANOPHYCEAE	
	..HORMOGONALES	FILAMENTOUS BL-GREEN
	...OSCILLATORIACEAE	
	....OSCILLATORIA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
SAMPLING METHOD: PLASTIC SLIDES, TIMED SAMPLING INTERVAL
ANALYSIS METHOD: GLASS CHAMBER(12MM CIRC), 200-X MICROSCOPE

09209400 GREEN RIVER NEAR LA BARGE, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

JUNE 20, 1978
1500 HOURS

IDENTIFICATION OF PERIPHYTON

_ORGANISM__NAME	_COMMON__NAME
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..VOLVOCALES	
...CHLAMYDOMONADACEAE	
& ....CHLAMYDOMONAS	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...ACHNANTHACEAE	
& ....COCCONEIS	
...NAVICULACEAE	NAVICULOID
....NAVICULA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
SAMPLING METHOD: PLASTIC SLIDES, TIMED SAMPLING INTERVAL
ANALYSIS METHOD: GLASS CHAMBER(12MM CIRC), 200-X MICROSCOPE

SEP. 2, 1978
1440 HOURS

IDENTIFICATION OF PERIPHYTON

_ORGANISM__NAME	_COMMON__NAME
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..ULOTRICHALES	
...CHAETOPHORACEAE	
....STIGEOCLONIUM	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...ACHNANTHACEAE	
& ....COCCONEIS	
...CYMBELLACEAE	
& ....EPITHEMIA	
...NAVICULACEAE	NAVICULOID
....NAVICULA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
SAMPLING METHOD: PLASTIC SLIDES, TIMED SAMPLING INTERVAL
ANALYSIS METHOD: SLIDE MOUNTING, INVERTED MICROSCOPE

09209400 GREEN RIVER NEAR LA BARGE, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

BENTHIC INVERTEBRATE ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 19,77
TIME	1715
TOTAL COUNT	94
DIVERSITY: PHYLUM	1.1
.CLASS	1.3
..ORDER	2.8
...FAMILY	3.2
....GENUS	4.1
....GENUS-INSECTA	3.8

ORGANISM	COUNT
ANNELIDA	
.OLIGOCHAETA	
..UNKNOWN ORDER	
...UNKNOWN FAMILY	
....UNKNOWN GENUS #5	10
ARTHROPODA (ARTHROPODS)	
.INSECTA	
..COLEOPTERA	
...ELMIDAE	
....OPTIOSERVUS	3
..DIPTERA	
...CHIRONOMIDAE	
....CONCHAPELOPIA	5
....MICROPSECTRA	1
....MONODIAMESA	13
....ORTHOCLADIUS	1
....POLYPEDILUM	5
....POTTHASTIA	1
....PROCLADIUS	5
....THIENEMANNIELLA	1
..EPHEMEROPTERA	
...BAETIDAE	
....BAETIS	5
....PSEUDOCLOEON	2
...EPHEMERELLIDAE	
....EPHEMERELLA	5
...LEPTOPHLEBIIDAE	
....PARALEPTOPHLEBIA	2
...TRICORYTHIDAE	
....TRICORYTHODES	5
..HEMIPTERA	
...CORIXIDAE	
....SIGARA	3
..PLECOPTERA	
...PERLODIDAE	
....ISOPERLA	5
..TRICHOPTERA	
...LEPTOCERIDAE	
....NECTOPSYCHE	1
....OECETIS	2
.ARACHNIDA	
..HYDRACARINA	
...UNKNOWN FAMILY	
....UNKNOWN GENUS #3	4
MOLLUSCA (MOLLUSCS)	
.GASTROPODA	
..BASOMMATOPHORA	
...PHYSIDAE	
....PHYSA	6
..MESOGASTROPODA	
...HYDROBIIDAE	
....AMNICOLA	9

09210500 FONTENELLE CREEK NEAR HERSCHLER RANCH, NEAR FONTENELLE, WY

LOCATION.--Lat 42°05'46", long 110°24'57", in NW¼SW¼NE¼ sec.2, T.24 N., R.115 W., Lincoln County, Hydrologic Unit 14040101, on left bank 2.0 mi (3.2 km) downstream from Dutch George Creek and 14 mi (23 km) west of Fontenelle.

DRAINAGE AREA.--152 mi^2 (394 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1951 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,950 ft (2,118 m), from topographic map. Prior to May 5, 1970, at site 300 ft (91 m) downstream at present datum.

REMARKS.--Records good except those for winter period, which are poor. Diversions for irrigation of about 780 acres (3.16 km^2) above station.

AVERAGE DISCHARGE.--27 years, 71.8 ft^3/s (2.033 m^3/s), 52,020 acre-ft/yr (64.1 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 821 ft^3/s (23.3 m^3/s) June 13, 1965, gage height, 6.87 ft (2.094 m); maximum gage height, 8.03 ft (2.448 m) June 16, 1978; minimum daily discharge, 8.8 ft^3/s (0.25 m^3/s) Aug. 14, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 150 ft^3/s (4.25 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Apr. 1	1600	196	5.55	6.45	1.966	May 16	0630	505	14.3	7.82	2.384
Apr. 11	2200	162	4.59	6.24	1.902	June 16	1500	*555	15.7	8.03	2.448
May 1	2330	325	9.20	7.22	2.201						

Minimum daily discharge, 14 ft^3/s (0.40 m^3/s) Feb. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	19	22	21	22	22	174	231	270	285	72	39
2	16	19	23	20	23	21	148	233	266	268	66	38
3	16	20	23	19	23	20	103	217	345	256	63	37
4	16	21	23	19	24	21	88	206	323	240	62	37
5	15	21	22	20	24	22	87	182	321	226	60	37
6	16	22	21	21	23	23	78	169	310	210	57	37
7	25	22	20	22	22	25	95	174	360	198	55	37
8	24	21	21	23	21	25	118	172	406	183	54	39
9	21	20	20	22	20	23	129	162	464	176	54	38
10	21	18	19	22	19	24	130	196	505	168	51	37
11	19	19	19	22	18	25	143	266	483	158	51	37
12	19	20	20	23	17	24	135	260	430	154	51	41
13	19	21	21	23	17	23	115	232	421	141	61	42
14	20	20	22	22	16	22	114	299	478	134	78	42
15	20	20	23	22	16	22	120	369	522	129	67	40
16	20	18	24	21	15	23	130	426	531	127	60	38
17	20	18	23	22	15	24	105	318	507	118	56	41
18	19	18	22	21	14	24	85	272	457	115	57	60
19	19	17	20	20	15	27	87	252	426	110	54	48
20	20	17	20	20	16	33	103	248	409	102	51	50
21	21	16	19	19	17	39	105	277	409	108	50	48
22	21	15	19	19	18	47	81	288	414	104	48	48
23	21	17	18	18	19	48	82	307	414	94	47	47
24	19	20	20	18	21	50	91	316	411	86	45	45
25	19	22	22	19	22	50	120	310	409	80	43	42
26	19	24	22	20	23	52	178	299	380	78	43	41
27	19	26	22	21	23	60	185	296	347	76	42	39
28	19	25	21	20	23	68	172	299	318	75	42	38
29	19	24	22	20	---	78	156	321	303	79	42	37
30	18	23	23	21	---	92	225	332	294	76	41	36
31	18	---	24	22	---	106	---	303	---	72	41	---
TOTAL	593	603	660	642	546	1163	3682	8232	11933	4426	1664	1236
MEAN	19.1	20.1	21.3	20.7	19.5	37.5	123	266	398	143	53.7	41.2
MAX	25	26	24	23	24	106	225	426	531	285	78	60
MIN	15	15	18	18	14	20	78	162	266	72	41	36
AC-FT	1180	1200	1310	1270	1080	2310	7300	16330	23670	8780	3300	2450

CAL YR 1977 TOTAL 8065.2 MEAN 22.1 MAX 60 MIN 8.8 AC-FT 16000
WTR YR 1978 TOTAL 35380.0 MEAN 96.9 MAX 531 MIN 14 AC-FT 70180

09210500 FONTENELLE CREEK NEAR HERSCHLER RANCH, NEAR FONTENELLE, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to September 1978 (discontinued).

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
OCT												
04...	1540	16	460	--	8.5	2	--	--	--	--	--	--
17...	1530	16	480	8.7	7.5	0	10.0	230	38	60	19	9.3
NOV												
04...	1130	21	470	--	3.0	1	--	--	--	--	--	--
29...	1450	24	270	--	.0	1	--	--	--	--	--	--
DEC												
30...	1345	A23	470	--	.0	2	--	--	--	--	--	--
FEB												
01...	1330	A22	380	--	.0	1	--	--	--	--	--	--
MAR												
08...	1325	A25	430	--	1.5	3	--	--	--	--	--	--
29...	1200	77	450	--	3.5	35	--	--	--	--	--	--
MAY												
08...	1130	162	390	--	6.5	21	--	200	31	55	14	10
23...	1145	316	350	--	8.5	30	--	--	--	--	--	--
30...	1125	336	300	--	6.0	25	--	--	--	--	--	--
JUN												
08...	1300	421	330	--	13.0	60	--	160	22	45	12	4.7
22...	1245	445	330	--	17.0	25	--	--	--	--	--	--
JUL												
12...	1330	158	350	--	15.0	6	--	170	21	46	13	4.4
AUG												
07...	1230	56	380	--	16.5	2	--	--	--	--	--	--
SEP												
05...	1115	38	360	--	14.0	1	--	200	42	56	15	7.2

A-Daily mean discharge.

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)
OCT												
04...	--	--	--	--	--	--	--	--	--	--	--	--
17...	.3	1.1	220	6	190	63	5.4	.1	7.0	279	.38	12.1
NOV												
04...	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
30...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
01...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
08...	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
08...	.3	1.7	200	0	160	43	5.2	.1	6.7	239	.32	102
23...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
08...	.2	.9	170	0	140	21	2.3	.2	5.7	176	.24	200
22...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
12...	.1	8.2	180	0	150	26	2.9	.1	7.4	197	.27	84.0
AUG												
07...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
05...	.2	.9	180	7	160	41	4.5	.1	6.2	227	.31	23.3

09210500 FONTENELLE CREEK NEAR HERSCHLER RANCH, NEAR FONTENELLE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
OCT												
04...	--	--	--	--	--	--	--	--	--	--	--	--
17...	.01	.00	.00	.00	.15	.10	.15	.05	.10	.01	.01	.00
NOV												
04...	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
30...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
01...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
08...	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
08...	--	--	--	--	--	--	--	--	--	.13	.02	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
08...	--	--	--	--	--	--	--	--	--	.30	.03	--
22...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
12...	.08	--	--	--	--	--	--	--	--	.05	.02	--
AUG												
07...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
05...	.02	--	--	--	--	--	--	--	--	.04	.02	.01

DATE	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	PHYTO-PLANK-TON, TOTAL (CELLS PER ML)	IN-VERTE-BRATES, BENTHIC WET WT. (G/SQ METER)	BIOMASS CHLORO-PHYLL RATIO PLANK-TON (UNITS)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
OCT											
04...	--	--	--	--	--	--	--	--	--	6	.26
17...	.00	30	10	10	280	22	31160	.076	.043	4	.17
NOV											
04...	--	--	--	--	--	--	--	--	--	8	.45
29...	--	--	--	--	--	--	--	--	--	10	.65
DEC											
30...	--	--	--	--	--	--	--	--	--	13	.81
FEB											
01...	--	--	--	--	--	--	--	--	--	3	.18
MAR											
08...	--	--	--	--	--	--	--	--	--	13	.88
29...	--	--	--	--	--	--	--	--	--	110	23
MAY											
08...	--	40	40	20	--	--	--	--	--	108	47
23...	--	--	--	--	--	--	--	--	--	176	150
30...	--	--	--	--	--	--	--	--	--	182	165
JUN											
08...	--	30	30	40	--	--	--	--	--	304	346
22...	--	--	--	--	--	--	--	--	--	147	177
JUL											
12...	--	30	150	20	--	--	--	--	--	32	14
AUG											
07...	--	--	--	--	--	--	--	--	--	12	1.8
SEP											
05...	.03	20	20	20	--	--	--	--	--	8	.82

DATE	TIME	TEMPER-ATURE (DEG C)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	NUMBER OF SAM-PLING POINTS	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 128 MM
SEP									
05...	1115	14.0	38	100	4	22	58	94	100

09210500 FONTENELLE CREEK NEAR HERSCHLER RANCH, NEAR FONTENELLE, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 17,77
TIME	1530
TOTAL CELLS/ML	280
DIVERSITY: DIVISION	0.9
.CLASS	0.9
..ORDER	0.9
...FAMILY	2.5
....GENUS	2.6

ORGANISM	CELLS /ML	PER- CENT
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...ACHNANTHACEAE		
....COCCONEIS	28	10
....RHOICOSPHENIA	9	3
...CYMBELLACEAE		
....EPITHEMIA	19	7
...DIATOMACEAE		
....DIATOMA	9	3
...FRAGILARIACEAE		
....SYNEDRA	19	7
...GOMPHONEMATACEAE		
....GOMPHONEMA	9	3
...NAVICULACEAE		
....NAVICULA	19	7
...NITZSCHIACEAE		
....NITZSCHIA	75#	27
CYANOPHYTA (BLUE-GREEN ALGAE)		
.CYANOPHYCEAE		
..HORMOGONALES		
...OSCILLATORIACEAE		
....OSCILLATORIA	94#	33

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

OCT. 17, 1977
1530 HOURS

PERIPHYTON IDENTIFICATION

	ORGANISM NAME	COMMON NAME
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..ULOTRICHALES	
	...CHAETOPHORACEAE	
	..ZYGNEMATALES	
	...ZYGNEMATACEAE	
	....MOUGEOTIA	
	....ZYGNEMA	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
	....ACHNANTHES	
	....COCCONEIS	
	....RHOICOSPHENIA	
	...CYMBELLACEAE	
	....CYMBELLA	
	....EPITHEMIA	
	...DIATOMACEAE	
&	....DIATOMA	
	...FRAGILARIACEAE	
	....FRAGILARIA	
	....SYNEDRA	
	...GOMPHONEMATACEAE	
	....GOMPHONEIS	
&	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
	....CALONEIS	
	....NAVICULA	
	...NITZSCHIACEAE	
&	....NITZSCHIA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.CYANOPHYCEAE	
	..HORMOGONALES	FILAMENTOUS BL-GREEN
	...NOSTOCACEAE	
	....ANABAENA	
&	..HORMOGONALES	FILAMENTOUS BL-GREEN

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

09210500 FONTENELLE CREEK NEAR HERSCHLER RANCH, NEAR FONTENELLE, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

BENTHIC INVERTEBRATE ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 17,77
TIME	1530
TOTAL COUNT	1039
DIVERSITY: PHYLUM	0.0
.CLASS	0.2
..ORDER	2.3
...FAMILY	3.1
....GENUS	3.9
....GENUS-INSECTA	3.8

ORGANISM	COUNT
ARTHROPODA (ARTHROPODS)	
.INSECTA	
..COLEOPTERA	
...ELMIDAE	
....CLEPTELMIS	6
....OPTIOSERVUS	234
....ZAITZEVIA	14
..DIPTERA	
...CHIRONOMIDAE	
....CRICOTOPUS	37
....DIAMESA	37
....EUKIEFFERIELLA	9
....ORTHOCLADIUS	13
....PENTANEURA	7
....RHEOTANYTARSUS	10
....SPANIOTOMA	21
...RHAGIONIDAE	
....ATHERIX	15
...SIMULIIDAE	
....SIMULIUM	4
...TIPULIDAE	
....ANTOCHA	9
....HEXATOMA	2
..EPHEMEROPTERA	
...BAETIDAE	
....BAETIS	46
....PSEUDOCLOEON	133
...EPHEMERELLIDAE	
....EPHEMERELLA	88
...HEPTAGENIIDAE	
....HEPTAGENIA	1
....RHITHROGENA	1
...LEPTOPHLEBIIDAE	
....PARALEPTOPHLEBIA	9
..HEMIPTERA	
...CORIXIDAE	
....HESPEROCORIXA	6
..PLECOPTERA	
...PERLODIDAE	
....UNKNOWN GENUS	17
...PTERONARCIDAE	
....PTERONARCELLA	6
....PTERONARCYS	8
..TRICHOPTERA	
...BRACHYCENTRIDAE	
....BRACHYCENTRUS	2
...GLOSSOSOMATIDAE	
....GLOSSOSOMA	1
....PROTOPTILA	1
...HYDROPSYCHIDAE	
....ARCTOPSYCHE	4
....CHEUMATOPSYCHE	172
...HYDROPTILIDAE	
....HYDROPTILA	17
....NEOTRICHIA	4
...LEPIDOSTOMATIDAE	
....LEPIDOSTOMA	52
..PLECOPTERA	
...CHLOROPERLIDAE	
....ALLOPERLA	7
...PERLIDAE	
....ACRONEURIA	5
..TRICHOPTERA	
...HYDROPSYCHIDAE	
....HYDROPSYCHE	16
.ARACHNIDA	
..HYDRACARINA	
...UNKNOWN FAMILY	
....UNKNOWN GENUS #3	23
MOLLUSCA (MOLLUSCS)	
.GASTROPODA	
..MESOGASTROPODA	
...HYDROBIIDAE	
....UNKNOWN GENUS	2

09211150 FONTENELLE RESERVOIR NEAR FONTENELLE, WY

LOCATION.--Lat 42°02'00", long 110°04'00", in S½ sec.25, T.24 N., R.112 W., Lincoln County, Hydrologic Unit 14040101, at dam on Green River, 3.0 mi (4.8 km) north of Fontenelle, and 3.5 mi (5.6 km) upstream from Slate Creek.

DRAINAGE AREA.--4,280 mi^2 (11,085 km^2), approximately.

PERIOD OF RECORD.--October 1964 to current year.

REVISED RECORDS.--WSP 2125: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Bureau of Reclamation).

REMARKS.--Reservoir is formed by earthfill dam completed by Bureau of Reclamation in April 1964. Capacity, 344,800 acre-ft (425 hm^3) between elevations 6,506.0 ft (1,983.03 m), crest of spillway, and 6,408.0 ft (1,953.16 m), invert of outlet pipe. Dead storage, below elevation 6,408.0 ft (1,953.16 m), 563 acre-ft (0.694 hm^3). Figures given herein represent total contents. Water used for irrigation and power development.

COOPERATION.--Records furnished by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily contents, 387,000 acre-ft (477 hm^3) June 29, 1965, elevation, 6,511.01 ft (1,984.556 m); minimum daily, 5,680 acre-ft (7.00 hm^3) July 28, 1967, elevation, 6,423.98 ft (1,958.029 m).

EXTREMES FOR CURRENT YEAR.--Maximum daily contents, 364,100 acre-ft (449 hm^3) July 13, 14, elevation, 6,508.35 ft (1,983.745 m); minimum daily, 197,900 acre-ft (244 hm^3) Mar. 19, elevation, 6,485.49 ft (1,976.777 m).

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	6,499.59	295,700	-
Oct. 31	6,499.71	296,600	+900
Nov. 30	6,499.76	297,000	+400
Dec. 31	6,498.32	285,600	-11,400
CAL YR 1977	-	-	+29,600
Jan. 31	6,493.58	252,200	-33,400
Feb. 28	6,489.19	222,200	-30,000
Mar. 31	6,486.69	206,000	-16,200
Apr. 30	6,486.53	205,000	-1,000
May 31	6,488.75	219,300	+14,300
June 30	6,502.74	319,700	+100,400
July 31	6,507.57	358,200	+38,500
Aug. 31	6,505.33	340,100	-18,100
Sept. 30	6,503.06	322,200	-17,900
WTR YR 1978	-	-	+26,500

09211200 GREEN RIVER BELOW FONTENELLE RESERVOIR, WY

LOCATION.--Lat 42°01'16", long 110°02'57", in NW¼NW¼NE¼ sec.31, T.24 N., R.111 W., Sweetwater County, Hydrologic Unit 14040103, on right bank 1.0 mi (1.6 km) downstream from Fontenelle Dam, 2.5 mi (4.0 km) upstream from Slate Creek, and 6.0 mi (9.7 km) southeast of Fontenelle.

DRAINAGE AREA.--4,280 mi^2 (11,090 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1963 to current year.

REVISED RECORDS.--WSP 2125: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6,378.13 ft (1,944.054 m), National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Flow completely regulated by Fontenelle Reservoir 1.0 mi (1.6 km) upstream. (See sta 09211150.) Natural flow of stream affected by storage reservoirs and diversions for irrigation of about 202,000 acres (817 km^2) above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 19,400 ft^3/s (549 m^3/s) Sept. 5, 1965, gage height, 18.74 ft (5.712 m), from floodmarks, caused by emergency release from Fontenelle Reservoir; minimum daily discharge, 209 ft^3/s (5.92 m^3/s) Nov. 22-24, 1968.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,550 ft^3/s (242 m^3/s) June 20, gage height, 15.77 ft (4.807 m); minimum daily, 296 ft^3/s (8.38 m^3/s) Sept. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	460	516	484	758	776	1200	1320	1680	5140	4900	3740	1580
2	468	516	492	758	776	1210	1330	1680	5100	4880	3630	1560
3	468	508	508	758	785	1210	1420	1670	5080	4900	3470	1580
4	468	508	508	758	785	1220	1590	1920	5080	4900	3260	1590
5	468	508	508	910	785	1220	1640	2250	5080	4960	3100	1590
6	532	508	508	1070	785	1210	1640	2240	5100	5100	2910	1580
7	460	516	508	1120	785	1210	1670	2200	5080	5300	2750	1590
8	460	516	684	1120	785	1210	1680	2180	5360	5300	2590	1590
9	460	516	767	1120	785	1200	1680	2160	5920	5000	2470	1600
10	460	516	767	1120	740	1190	1680	2160	6300	5060	2360	1600
11	468	508	758	1110	700	1190	1680	2160	6300	5280	2260	1600
12	468	508	758	1110	700	1200	1680	2160	6540	5360	2130	1610
13	476	508	758	1110	900	1200	1680	2160	7060	5380	2070	1610
14	484	508	758	1110	1110	1200	1700	2160	7510	5380	2080	1610
15	484	508	758	1110	1240	1210	1700	2180	7820	5340	2100	1610
16	484	508	749	1110	1220	1050	1680	2180	7990	5340	2120	1610
17	484	516	749	1100	1200	930	1670	2180	8370	5360	2100	1610
18	492	508	749	1110	1200	930	1680	2190	8430	5400	2060	1610
19	492	508	749	1110	1210	930	1680	2200	8480	5380	2000	1600
20	500	508	749	1110	1210	767	1700	2220	8350	5380	1910	1600
21	500	508	749	1100	1210	708	1670	2240	8320	5300	1810	1600
22	500	492	749	1100	1210	708	1680	2530	7660	5140	1740	1600
23	492	500	749	1100	1210	708	1680	2910	6980	5040	1650	1540
24	508	500	749	1110	1210	708	1680	2900	6160	4880	1600	914
25	508	492	749	1100	1200	708	1680	3060	5320	4600	1560	296
26	516	492	749	1100	1200	708	1680	3660	4880	4260	1550	302
27	516	492	749	970	1210	708	1680	4200	4880	3970	1540	302
28	516	492	749	776	1210	900	1680	4280	4700	3750	1550	302
29	516	492	749	776	---	1220	1680	4280	4880	3610	1560	302
30	516	484	749	776	---	1320	1680	4400	4880	3680	1580	566
31	516	---	758	776	---	1320	---	4800	---	3720	1580	---
TOTAL	15140	15160	21517	31266	28137	32403	49290	81190	188750	151850	68830	39654
MEAN	488	505	694	1009	1005	1045	1643	2619	6292	4898	2220	1322
MAX	532	516	767	1120	1240	1320	1700	4800	8480	5400	3740	1610
MIN	460	484	484	758	700	708	1320	1670	4700	3610	1540	296
AC-FT	30030	30070	42680	62020	55810	64270	97770	161000	374400	301200	136500	78650

CAL YR 1977 TOTAL 212566 MEAN 582 MAX 1460 MIN 326 AC-FT 421600
WTR YR 1978 TOTAL 723187 MEAN 1981 MAX 8480 MIN 296 AC-FT 1434000

09211200 GREEN RIVER BELOW FONTENELLE RESERVOIR, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1968 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
OCT												
05...	1230	463	450	--	10.0	1	--	--	--	--	--	--
14...	1730	476	390	8.7	14.0	0	11.0	K2	160	29	43	14
19...	1045	492	390	8.6	10.0	0	9.4	--	180	25	48	14
19...	1300	468	--	--	--	--	--	--	--	--	--	--
NOV												
04...	1430	508	360	--	9.0	1	--	--	--	--	--	--
DEC												
01...	1345	492	450	--	4.0	1	--	--	--	--	--	--
01...	1600	492	390	8.4	2.5	1	11.4	K4	170	37	45	13
22...	1530	749	390	8.4	1.0	1	10.3	<1	170	29	11	35
30...	1100	758	--	--	3.0	1	--	--	--	--	--	--
JAN												
22...	1500	1080	420	8.3	3.0	1	--	K1	180	32	48	15
FEB												
03...	1115	765	580	--	4.0	1	--	--	--	--	--	--
19...	1610	1220	380	8.2	4.0	1	10.5	<1	190	42	51	15
MAR												
01...	1600	1200	480	8.3	6.0	--	10.8	--	--	--	--	--
08...	1800	1200	430	--	3.5	1	--	--	--	--	--	--
18...	1600	930	480	8.3	6.0	15	10.8	K1	200	52	49	18
APR												
04...	1530	1630	480	--	5.0	1	--	--	--	--	--	--
30...	1000	1680	450	8.3	6.0	2	10.6	K1	210	38	60	14
MAY												
08...	1600	2180	440	--	8.0	3	--	--	--	--	--	--
24...	1540	2900	450	--	11.0	1	--	--	--	--	--	--
27...	1800	4290	420	8.2	11.0	1	10.4	K1	180	24	48	14
30...	1640	4620	330	--	11.5	4	--	--	--	--	--	--
JUN												
08...	1410	5700	380	--	12.5	3	--	--	--	--	--	--
19...	1535	8520	420	--	14.5	3	--	--	--	--	--	--
20...	1700	7100	340	8.3	15.0	5	10.2	<1	130	20	37	10
JUL												
19...	1430	5360	420	--	19.5	2	--	--	--	--	--	--
AUG												
01...	1410	3750	290	--	20.0	1	--	--	--	--	--	--
05...	1520	3060	300	8.4	20.0	1	8.8	K3	120	13	34	7.6
28...	1300	1550	360	--	16.0	1	--	--	--	--	--	--
SEP												
02...	1600	1560	280	8.5	22.0	1	9.0	K2	130	23	36	9.8
05...	1545	1580	310	--	17.0	1	--	--	--	--	--	--
26...	1130	302	720	--	13.0	1	--	--	--	--	--	--

K-Results based on colony count outside the acceptable range (non-ideal colony count).

09211200 GREEN RIVER BELOW FONTENELLE RESERVOIR, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 105 DEG. C, DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
OCT												
05...	--	--	--	--	--	--	--	--	--	--	--	--
14...	30	1.0	2.0	160	0	130	78	5.6	.3	3.7	--	291
19...	23	.8	1.8	170	8	150	70	4.4	.2	3.3	250	257
19...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
04...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
01...	--	--	--	--	--	--	--	--	--	--	--	--
01...	30	1.0	1.7	150	6	130	77	6.5	.3	18	--	274
22...	29	1.0	1.9	160	6	140	78	5.7	.3	3.3	--	247
30...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
22...	24	.8	1.6	180	0	150	73	8.3	.4	8.9	--	267
FEB												
03...	--	--	--	--	--	--	--	--	--	--	--	--
19...	16	.5	1.2	180	0	150	73	3.2	.2	5.2	--	251
MAR												
01...	--	--	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--	--	--
18...	26	.8	1.5	180	0	150	96	5.3	.3	5.5	--	290
APR												
04...	--	--	--	--	--	--	--	--	--	--	--	--
30...	21	.6	1.7	210	0	170	80	6.8	1.6	.1	--	289
MAY												
08...	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--
27...	21	.7	1.6	190	0	160	70	5.1	.3	6.3	--	357
30...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
08...	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--
20...	11	.4	.1	130	2	110	35	1.8	.2	6.5	--	168
JUL												
19...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
01...	--	--	--	--	--	--	--	--	--	--	--	--
05...	11	.4	1.4	130	0	110	29	3.0	.1	3.6	--	176
28...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
02...	9.7	.4	.9	130	0	110	28	4.8	.2	4.4	--	224
05...	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--

09211200 GREEN RIVER BELOW FONTENELLE RESERVOIR, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	SOLIDS, SUSP. TOTAL, RESIDUE AT 110 DEG. C (MG/L)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)
OCT												
05...	--	--	--	--	--	--	--	--	--	--	--	--
14...	.40	374	--	0	.16	.29	--	.05	--	--	.61	--
19...	.35	341	<1	--	--	--	.00	.00	.00	.00	.15	.17
19...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
04...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
01...	--	--	--	--	--	--	--	--	--	--	--	--
01...	.37	364	--	6	.09	.13	--	.22	--	--	.18	--
22...	.34	500	--	9	.11	.12	--	.09	--	--	.29	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
22...	.36	779	--	9	.11	.09	--	.07	--	--	.00	--
FEB												
03...	--	--	--	--	--	--	--	--	--	--	--	--
19...	.34	827	--	6	.09	.28	--	.16	--	--	.19	--
MAR												
01...	--	--	--	32	--	.33	--	.04	--	--	.21	--
08...	--	--	--	--	--	--	--	--	--	--	--	--
18...	.39	728	--	--	.11	--	--	--	--	--	--	--
APR												
04...	--	--	--	--	--	--	--	--	--	--	--	--
30...	.39	1310	--	6	.18	.09	--	.03	--	--	.55	--
MAY												
08...	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--
27...	.49	4140	--	0	.07	.08	--	.03	--	--	2.6	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
08...	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--
20...	.23	3220	--	3	.11	.11	--	.11	--	--	.78	--
JUL												
19...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
01...	--	--	--	--	--	--	--	--	--	--	--	--
05...	.24	1450	--	0	.16	.10	--	.00	--	--	.68	--
28...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
02...	.30	943	--	10	.05	.02	--	.14	--	--	.49	--
05...	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--

09211200 GREEN RIVER BELOW FONTENELLE RESERVOIR, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CARBON, ORGANIC SUSPENDED TOTAL (MG/L AS C)	PHYTOPLANKTON, TOTAL (CELLS PER ML)
OCT												
05...	--	--	--	--	--	--	--	--	--	--	--	--
14...	.66	--	--	.95	4.2	.01	--	--	--	4.0	.4	14000
19...	.15	.08	.17	--	--	.00	.01	.00	.00	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	1600
NOV												
04...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
01...	--	--	--	--	--	--	--	--	--	--	--	--
01...	.40	--	--	.53	2.3	.00	--	--	--	--	--	530
22...	.38	--	--	.50	2.2	.01	--	--	--	--	--	3100
30...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
22...	.03	--	--	.12	.53	.00	--	--	--	--	--	330
FEB												
03...	--	--	--	--	--	--	--	--	--	--	--	--
19...	.35	--	--	.63	2.8	.01	--	--	--	--	--	190
MAR												
01...	.25	--	--	.58	2.6	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	.07	--	--	--	--	--	610
APR												
04...	--	--	--	--	--	--	--	--	--	--	--	--
30...	.58	--	--	.67	3.0	.00	--	--	--	--	--	450
MAY												
08...	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--
27...	2.6	--	--	2.7	12	.01	--	--	--	--	--	1900
30...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
08...	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--
20...	.89	--	--	1.0	4.4	.03	--	--	--	5.0	.7	310
JUL												
19...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
01...	--	--	--	--	--	--	--	--	--	--	--	--
05...	.68	--	--	.78	3.5	.02	--	--	--	--	--	840
28...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
02...	.63	--	--	.65	2.9	.03	--	--	--	--	--	1300
05...	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--

09211200 GREEN RIVER BELOW FONTENELLE RESERVOIR, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	IN-VERTE-BRATES, BENTHIC WET WT. (G/SQ METER)	BIOMASS CHLORO-PHYLL RATIO PLANK-TON (UNITS)	BIOMASS CHLORO-PHYLL RATIO PERI-PHYTON (UNITS)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L)	CHLOR-A PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	CHLOR-B PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
OCT											
05...	--	--	--	--	--	--	--	--	--	2	2.5
14...	--	--	--	.00	66850	.413	.026	.394	.068	--	--
19...	--	--	--	--	--	--	--	--	--	2	2.7
19...	--	--	.3	--	--	.446	.012	--	--	--	--
NOV											
04...	--	--	--	--	--	--	--	--	--	3	4.1
DEC											
01...	--	--	--	--	--	--	--	--	--	8	11
01...	12.1	13.9	--	--	559	.000	.000	2.11	--	--	--
22...	--	--	--		--	.000	.000	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	3	6.1
JAN											
22...	--	--	--	--	--	.000	.000	--	--	--	--
FEB											
03...	--	--	--	--	--	--	--	--	--	2	4.2
19...	--	--	--	3817	--	1.31	.000	--	--	--	--
MAR											
01...	--	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	8	26
18...	--	--	--	5614	--	.860	.000	--	--	--	--
APR											
04...	--	--	--	--	--	--	--	--	--	4	18
30...	--	--	--	1761	--	2.84	.000	--	--	--	--
MAY											
08...	--	--	--	--	--	--	--	--	--	4	24
24...	--	--	--	--	--	--	--	--	--	5	39
27...	25.6	25.4	--	6849	1990	1.46	.000	1.03	--	--	--
30...	--	--	--	--	--	--	--	--	--	8	100
JUN											
08...	--	--	--	--	--	--	--	--	--	5	77
19...	--	--	--	--	--	--	--	--	--	6	130
20...	--	--	--	3247	--	1.54	.000	--	--	--	--
JUL											
19...	--	--	--	--	--	--	--	--	--	10	145
AUG											
01...	--	--	--	--	--	--	--	--	--	5	51
05...	--	--	--	6944	--	.720	.000	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	6	25
SEP											
02...	--	--	--	.00	--	1.56	.000	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	4	17
26...	--	--	--	--	--	--	--	--	--	5	4.1

09211200 GREEN RIVER BELOW FONTENELLE RESERVOIR, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, SUSPENDED RECOV. (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUSPENDED TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	BERYLLIUM, SUSPENDED RECOV. (UG/L AS BE)
OCT										
14...	1730	40	30	10	2	0	2	--	0	0
19...	1045	--	--	10	--	--	1	0	--	--
DEC										
01...	1600	--	--	--	--	--	--	--	--	--
22...	1530	--	--	--	--	--	--	--	--	--
JAN										
22...	1500	--	--	--	--	--	--	--	--	--
FEB										
19...	1610	--	--	--	--	--	--	--	--	--
MAR										
01...	1600	--	--	--	--	--	--	--	--	--
APR										
30...	1000	--	--	--	--	--	--	--	--	--
MAY										
27...	1800	--	--	--	--	--	--	--	--	--
JUN										
20...	1700	140	130	10	2	1	1	--	5	5
AUG										
05...	1520	--	--	--	--	--	--	--	--	--
SEP										
02...	1600	--	--	--	--	--	--	--	--	--

DATE	BERYLLIUM, DISSOLVED (UG/L AS BE)	BORON, TOTAL RECOVERABLE (UG/L AS B)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)
OCT										
14...	20	60	--	10	2	8	10	0	10	<10
19...	--	--	40	--	--	0	--	--	10	--
DEC										
01...	--	90	--	--	--	--	--	--	--	--
22...	--	90	--	--	--	--	--	--	--	--
JAN										
22...	--	80	--	--	--	--	--	--	--	--
FEB										
19...	--	60	--	--	--	--	--	--	--	--
MAR										
01...	--	70	--	--	--	--	--	--	--	--
APR										
30...	--	90	--	--	--	--	--	--	--	--
MAY										
27...	--	60	--	--	--	--	--	--	--	--
JUN										
20...	0	80	--	2	0	2	0	0	0	7
AUG										
05...	--	700	--	--	--	--	--	--	--	--
SEP										
02...	--	60	--	--	--	--	--	--	--	--

DATE	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	LITHIUM SUSPENDED RECOVERABLE (UG/L AS LI)	LITHIUM DISSOLVED (UG/L AS LI)
OCT										
14...	<9	1	60	30	<100	<96	4	9	9	0
19...	--	0	--	10	--	--	1	--	--	--
DEC										
01...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
JAN										
22...	--	--	--	--	--	--	--	--	--	--
FEB										
19...	--	--	--	--	--	--	--	--	--	--
MAR										
01...	--	--	--	--	--	--	--	--	--	--
APR										
30...	--	--	--	--	--	--	--	--	--	--
MAY										
27...	--	--	--	--	--	--	--	--	--	--
JUN										
20...	1	6	200	70	6	0	6	4	2	2
AUG										
05...	--	--	--	--	--	--	--	--	--	--
SEP										
02...	--	--	--	--	--	--	--	--	--	--

09211200 GREEN RIVER BELOW FONTENELLE RESERVOIR, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECUV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO)	MOLYB-DENUM, SUS-PENDED RECOV. (UG/L AS MO)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)
OCT										
14...	20	20	0	.0	.0	.0	6	5	1	<50
19...	--	--	4	--	--	.0	--	--	1	--
DEC										
01...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
JAN										
22...	--	--	--	--	--	--	--	--	--	--
FEB										
19...	--	--	--	--	--	--	--	--	--	--
MAR										
01...	--	--	--	--	--	--	--	--	--	--
APR										
30...	--	--	--	--	--	--	--	--	--	--
MAY										
27...	--	--	--	--	--	--	--	--	--	--
JUN										
20...	0	0	0	.0	.0	.1	5	1	4	2
AUG										
05...	--	--	--	--	--	--	--	--	--	--
SEP										
02...	--	--	--	--	--	--	--	--	--	--

DATE	NICKEL, SUS-PENDED RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, SUS-PENDED TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT										
14...	<47	3	0	0	0	--	.9	20	10	10
19...	--	--	--	--	0	0	--	--	--	0
DEC										
01...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
JAN										
22...	--	--	--	--	--	--	--	--	--	--
FEB										
19...	--	--	--	--	--	--	--	--	--	--
MAR										
01...	--	--	--	--	--	--	--	--	--	--
APR										
30...	--	--	--	--	--	--	--	--	--	--
MAY										
27...	--	--	--	--	--	--	--	--	--	--
JUN										
20...	1	1	0	0	0	--	1.9	20	0	20
AUG										
05...	--	--	--	--	--	--	--	--	--	--
SEP										
02...	--	--	--	--	--	--	--	--	--	--

DATE	TIME	GROSS ALPHA, DIS-SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137)	GRUSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS-SOLVED (UG/L AS U)
OCT									
19...	1045	3.3	<.4	4.4	<.4	3.5	<.4	.09	1.6

09211200 GREEN RIVER BELOW FONTENELLE RESERVOIR, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO SEPTEMBER 1978

DATE	OCT 14,77	OCT 19,77	DEC 1,77	DEC 22,77	JAN 22,78	FEB 19,78
TIME	1730	1300	1600	1530	1500	1610
TOTAL CELLS/ML	14000	1600	530	3100	330	190
DIVERSITY: DIVISION	1.0	0.8	1.2	0.2	0.5	0.7
.CLASS	1.2	1.0	1.2	0.2	0.5	0.7
..ORDER	1.3	1.2	1.9	0.4	1.2	1.5
...FAMILY	1.4	1.4	2.3	1.4	2.3	2.3
....GENUS	1.6	1.7	2.6	1.7	3.0	2.8

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)												
.CHLOROPHYCEAE												
..CHLOROCOCCALES												
...CHARACIACEAE												
....ANKYRA	*	0	--	-	--	-	--	-	--	-	--	-
....SCHROEDERIA	--	-	--	-	--	-	--	-	--	-	--	-
...COELASTRACEAE												
....COELASTRUM	--	-	--	-	--	-	--	-	--	-	--	-
...OOCYSTACEAE												
....ANKISTRODESMUS	*	0	--	-	6	1	*	0	--	-	--	-
...SCENEDESMACEAE												
....CRUCIGENIA	120	1	--	-	--	-	--	-	--	-	--	-
....SCENEDESMUS	--	-	--	-	--	-	--	-	--	-	37#	20
..VOLVOCALES												
...CHLAMYDOMONADACEAE												
....CHLAMYDOMONAS	--	-	--	-	--	-	--	-	--	-	--	-
..ZYGNEMATALES												
...ZYGNEMATACEAE												
....MOUGEOTIA	--	-	--	-	--	-	85	3	--	-	--	-
CHRYSOPHYTA												
.BACILLARIOPHYCEAE												
..CENTRALES												
...COSCINODISCACEAE												
....CYCLOTELLA	--	-	--	-	81#	15	94	3	5	2	9	5
....MELOSIRA	--	-	--	-	--	-	--	-	--	-	--	-
....STEPHANODISCUS	410	3	170	11	50	9	--	-	74#	23	46#	24
...RHIZOSOLENIACEAE												
....RHIZOSOLENIA	--	-	--	-	--	-	--	-	--	-	--	-
..PENNALES												
...ACHNANTHACEAE												
....ACHNANTHES	*	0	--	-	6	1	43	1	11	3	--	-
....COCCONEIS	*	0	--	-	6	1	--	-	5	2	--	-
....RHOICOSPHENIA	*	0	8	1	--	-	--	-	--	-	--	-
...CYMBELLACEAE												
....AMPHORA	--	-	--	-	--	-	--	-	--	-	5	2
....CYMBELLA	*	0	--	-	--	-	43	1	5	2	--	-
....EPITHEMIA	--	-	--	-	--	-	*	0	--	-	9	5
...DIATOMACEAE												
....DIATOMA	*	0	58	4	31	6	68	2	21	6	--	-
...FRAGILARIACEAE												
....ASTERIONELLA	*	0	66	4	12	2	--	-	42	13	14	7
....FRAGILARIA	1100	8	--	-	--	-	2200#	72	53#	16	--	-
....SYNEDRA	--	-	--	-	--	-	130	4	26	8	46#	24
...GOMPHONEMATACEAE												
....GOMPHONEMA	*	0	8	1	--	-	--	-	--	-	9	5
...NAVICULACEAE												
....NAVICULA	--	-	8	1	19	4	51	2	53#	16	14	7
...NITZSCHIACEAE												
....NITZSCHIA	*	0	--	-	19	4	260	9	--	-	--	-
...TABELLARIACEAE												
....TABELLARIA	--	-	--	-	--	-	60	2	--	-	--	-
.CHRYSOPHYCEAE												
..CHRYSOMONADALES												
...OCHROMONADACEAE												
....OCHROMONAS	--	-	--	-	--	-	--	-	--	-	--	-
.XANTHOPHYCEAE												
..RHIZOCHLORIDALES												
...STIPITOCOCCACEAE												
....STIPITOCOCCUS	1400	10	83	5	--	-	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)												
.CRYPTOPHYCEAE												
..CRYPTOMONADALES												
...CRYPTO,ONADACEAE												
....CRYPTOMONAS	*	0	--	-	--	-	--	-	--	-	--	-
...CRYPTOCHRYSIDACEAE												
....CHROOMONAS	*	0	--	-	12	2	--	-	--	-	--	-
....RHODOMONAS	*	0	--	-	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

09211200 GREEN RIVER BELOW FONTENELLE RESERVOIR, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO SEPTEMBER 1978

DATE	OCT 14,77		OCT 19,77		DEC 1,77		DEC 22,77		JAN 22,78		FEB 19,78	
TIME	1730		1300		1600		1530		1500		1610	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CYANOPHYTA (BLUE-GREEN ALGAE)												
.CYANOPHYCEAE												
..CHROOCOCCALES												
...CHROOCOCCACEAE												
....ANACYSTIS	--	-	--	-	37	7	--	-	--	-	--	-
..HORMOGONALES												
...NOSTOCACEAE												
....ANABAENA	260	2	110	7	--	-	--	-	--	-	--	-
....APHANIZOMENON	9900#	72	1100#	68	--	-	--	-	--	-	--	-
...OSCILLATORIACEAE												
....OSCILLATORIA	--	-	--	-	250#	47	--	-	32	10	--	-
EUGLENOPHYTA (EUGLENOIDS)												
.EUGLENOPHYCEAE												
..EUGLENALES												
...EUGLENACEAE												
....EUGLENA	--	-	--	-	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

09211200 GREEN RIVER BELOW FONTENELLE RESERVOIR, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO SEPTEMBER 1978

DATE	MAR 18,78	APR 30,78	MAY 27,78	JUN 20,78	AUG 5,78	SEP 2,78
TIME	1600	1000	1800	1700	1520	1600
TOTAL CELLS/ML	610	450	1900	310	840	1300
DIVERSITY: DIVISION	0.1	0.5	0.1	0.8	1.1	0.8
.CLASS	0.1	0.8	0.1	0.8	1.1	0.8
..ORDER	0.5	1.5	0.3	0.8	1.5	1.5
...FAMILY	1.1	2.3	0.8	2.0	1.7	2.1
....GENUS	1.1	2.3	0.8	2.0	1.7	2.3

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)												
.CHLOROPHYCEAE												
..CHLOROCOCCALES												
...CHARACIACEAE												
....ANKYRA	--	-	--	-	--	-	--	-	--	-	--	-
....SCHROEDERIA	--	-	--	-	--	-	--	-	7	1	*	0
...COELASTRACEAE												
....COELASTRUM	--	-	--	-	--	-	15	5	--	-	--	-
...OOCYSTACEAE												
....ANKISTRODESMUS	--	-	--	-	--	-	--	-	--	-	*	0
...SCENEDESMACEAE												
....CRUCIGENIA	--	-	--	-	--	-	--	-	--	-	--	-
....SCENEDESMUS	--	-	--	-	--	-	59#	19	--	-	13	1
..VOLVOCALES												
...CHLAMYDOMONADACEAE												
....CHLAMYDOMONAS	--	-	21	5	--	-	--	-	--	-	--	-
..ZYGNEMATALES												
...ZYGNEMATACEAE												
....MOUGEOTIA	--	-	--	-	--	-	--	-	--	-	--	-
CHRYSOPHYTA												
.BACILLARIOPHYCEAE												
..CENTRALES												
...COSCINODISCACEAE												
....CYCLOTELLA	45	7	100#	23	--	-	--	-	--	-	24	2
....MELOSIRA	--	-	--	-	--	-	--	-	380#	45	710#	55
....STEPHANODISCUS	--	-	--	-	57	3	--	-	--	-	17	1
...RHIZOSOLENIACEAE												
....RHIZOSOLENIA	--	-	--	-	--	-	--	-	7	1	--	-
..PENNALES												
...ACHNANTHACEAE												
....ACHNANTHES	--	-	--	-	29	1	--	-	8	1	--	-
....COCCONEIS	--	-	--	-	--	-	15	5	30	4	34	3
....RHOICOSPHENIA	--	-	--	-	--	-	--	-	--	-	13	1
...CYMBELLACEAE												
....AMPHORA	--	-	--	-	--	-	--	-	--	-	13	1
....CYMBELLA	26	4	21	5	14	1	29	10	5	1	27	2
....EPITHEMIA	--	-	--	-	--	-	--	-	--	-	--	-
...DIATOMACEAE												
....DIATOMA	19	3	21	5	29	1	160#	52	--	-	47	4
...FRAGILARIACEAE												
....ASTERIONELLA	--	-	--	-	--	-	--	-	--	-	--	-
....FRAGILARIA	--	-	--	-	71	4	--	-	--	-	--	-
....SYNEDRA	490#	81	--	-	--	-	--	-	--	-	--	-
...GOMPHONEMATACEAE												
....GOMPHONEMA	--	-	--	-	--	-	--	-	5	1	*	0
...NAVICULACEAE												
....NAVICULA	13	2	41	9	14	1	--	-	27	3	110	9
...NITZSCHIACEAE												
....NITZSCHIA	6	1	210#	45	1700#	88	29	10	*	0	*	0
...TABELLARIACEAE												
....TABELLARIA	--	-	--	-	--	-	--	-	--	-	--	-
.CHRYSOPHYCEAE												
..CHRYSOMONADALES												
...OCHROMONADACEAE												
....OCHROMONAS	--	-	21	5	--	-	--	-	--	-	--	-
.XANTHOPHYCEAE												
..RHIZOCHLORIDALES												
...STIPITOCOCCACEAE												
....STIPITOCOCCUS	--	-	--	-	--	-	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)												
.CRYPTOPHYCEAE												
..CRYPTOMONADALES												
...CRYPTO,ONADACEAE												
....CRYPTOMONAS	--	-	--	-	14	1	--	-	--	-	--	-
...CRYPTOCHRYSIDACEAE												
....CHROOMONAS	--	-	--	-	--	-	--	-	5	1	--	-
....RHODOMONAS	--	-	--	-	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

09211200 GREEN RIVER BELOW FONTENELLE RESERVOIR, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

PHYTOPLANKTUN ANALYSES, OCTOBER 1977 TO SEPTEMBER 1978

DATE	MAR 16,78		APR 30,78		MAY 27,78		JUN 20,78		AUG 5,78		SEP 2,78	
TIME	1600		1000		1800		1700		1520		1600	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CYANOPHYTA (BLUE-GREEN ALGAE)												
.CYANOPHYCEAE												
..CHROOCOCCALES												
...CHROOCOCCACEAE												
....ANACYSTIS	--	-	21	5	--	-	--	-	--	-	--	-
..HORMOGONALES												
...NOSTOCACEAE												
....ANABAENA	--	-	--	-	--	-	--	-	370#	44	67	5
....APHANIZOMENON	--	-	--	-	--	-	--	-	--	-	--	-
...OSCILLATORIACEAE												
....OSCILLATORIA	--	-	--	-	--	-	--	-	--	-	200#	16
EUGLENOPHYTA (EUGLENOIDS)												
.EUGLENOPHYCEAE												
..EUGLENALES												
...EUGLENACEAE												
....EUGLENA	6	1	--	-	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
 * - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

09211200 GREEN RIVER BELOW FONTENELLE RESERVOIR, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

OCT. 19, 1977
1300 HOURS

PERIPHYTON IDENTIFICATION

	_ORGANISM__NAME	_COMMON__NAME
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..CHLOROCOCCALES	
	...SCENEDESMACEAE	
	....SCENEDESMUS	
	..ULOTRICHALES	
	...CHAETOPHORACEAE	
&	....STIGEOCLONIUM	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..CENTRALES	CENTRIC
	...COSCINODISCACEAE	
	....STEPHANODISCUS	
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
	....ACHNANTHES	
	....COCCONEIS	
	....RHOICOSPHENIA	
	...CYMBELLACEAE	
&	....CYMBELLA	
	....EPITHEMIA	
	...DIATOMACEAE	
&	....DIATOMA	
	...FRAGILARIACEAE	
	....ASTERIONELLA	
&	....FRAGILARIA	
	....SYNEDRA	
	...GOMPHONEMATACEAE	
	....GOMPHONEIS	
	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
	....NAVICULA	
	...NITZSCHIACEAE	
	....NITZSCHIA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.CYANOPHYCEAE	
	..CHROOCOCCALES	COCCOID BLUE-GREENS
	...CHROOCOCCACEAE	
	....AGMENELLUM	
	..HORMOGONALES	FILAMENTOUS BL-GREEN
	...OSCILLATORIACEAE	
	....ARTHROSPIRA	
&	....LYNGBYA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

09211200 GREEN RIVER BELOW FONTENELLE RESERVOIR, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DEC. 1, 1977
1600 HOURS

PERIPHYTON IDENTIFICATION

	ORGANISM NAME	COMMON NAME
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..CHLOROCOCCALES	
	...HYDRODICTYACEAE	
	....PEDIASTRUM	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..CENTRALES	CENTRIC
	...COSCINODISCACEAE	
	....CYCLOTELLA	
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
&	....ACHNANTHES	
	...CYMBELLACEAE	
&	....CYMBELLA	
	...DIATOMACEAE	
&	....DIATOMA	
	...FRAGILARIACEAE	
	....ASTERIONELLA	
&	....FRAGILARIA	
&	....SYNEDRA	
	...GOMPHONEMATACEAE	
	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
	....NAVICULA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.CYANOPHYCEAE	
	..HORMOGONALES	FILAMENTOUS BL-GREEN
	...OSCILLATORIACEAE	
	....OSCILLATORIA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
SAMPLING METHOD: PLASTIC SLIDES, TIMED SAMPLING INTERVAL
ANALYSIS METHOD: SLIDE MOUNTING

09211200 GREEN RIVER BELOW FONTENELLE RESERVOIR, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

MAY 27, 1978
1800 HOURS

IDENTIFICATION OF PERIPHYTON

_ORGANISM__NAME	_COMMON__NAME
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..CHLOROCOCCALES	
...OOCYSTACEAE	
....ANKISTRODESMUS	
...SCENEDESMACEAE	
....SCENEDESMUS	
..VOLVOCALES	
...CHLAMYDOMONADACEAE	
....CHLAMYDOMONAS	
..ZYGNEMATALES	
...ZYGNEMATACEAE	
....MOUGEOTIA	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..CENTRALES	CENTRIC
...COSCINODISCACEAE	
....STEPHANODISCUS	
..PENNALES	PENNATE
...ACHNANTHACEAE	
& ....ACHNANTHES	
....COCCONEIS	
...CYMBELLACEAE	
....AMPHORA	
....CYMBELLA	
...DIATOMACEAE	
& ....DIATOMA	
...FRAGILARIACEAE	
& ....FRAGILARIA	
....SYNEDRA	
...GOMPHONEMATACEAE	
....GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
....GYROSIGMA	
& ....NAVICULA	
....PINNULARIA	
...NITZSCHIACEAE	
....DENTICULA	
....NITZSCHIA	
...SURIRELLACEAE	
....SURIRELLA	
.CHRYSOPHYCEAE	YELLOW-BROWN ALGAE
..CHRYSOMONADALES	
...OCHROMONADACEAE	
....DINOBRYON	
CYANOPHYTA	BLUE-GREEN ALGAE
.CYANOPHYCEAE	
..HORMOGONALES	FILAMENTOUS BL-GREEN
...NOSTOCACEAE	
....ANABAENA	
...OSCILLATORIACEAE	
....OSCILLATORIA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
SAMPLING METHOD: PLASTIC SLIDES, TIMED SAMPLING INTERVAL
ANALYSIS METHOD: GLASS CHAMBER(12MM CIRC), 200-X MICROSCOPE

09211200 GREEN RIVER BELOW FONTENELLE RESERVOIR, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

BENTHIC INVERTEBRATE ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 19,77
TIME	1300
TOTAL COUNT	109
DIVERSITY: PHYLUM	0.1
.CLASS	0.1
..ORDER	1.2
...FAMILY	1.2
....GENUS	2.0
....GENUS-INSECTA	1.9

ORGANISM	COUNT
ANNELIDA	
.OLIGOCHAETA	
..UNKNOWN ORDER	
...UNKNOWN FAMILY	
....UNKNOWN GENUS #5	1
ARTHROPODA (ARTHROPODS)	
.INSECTA	
..COLEOPTERA	
...ELMIDAE	
....OPTIOSERVUS	1
..DIPTERA	
...CHIRONOMIDAE	
....CRICOTOPUS	6
....ORTHOCLADIUS	8
....POTTHASTIA	2
....RHEOTANYTARSUS	15
....TANYTARSUS	4
..EPHEMEROPTERA	
...CAENIDAE	
....CAENIS	2
..HEMIPTERA	
...CORIXIDAE	
....HESPEROCORIXA	68
..TRICHOPTERA	
...HYDROPTILIDAE	
....UNKNOWN GENUS	1
..DIPTERA	
...CHIRONOMIDAE	
....LIMNOCHIRONOMUS	1

09212500 BIG SANDY RIVER AT LECKIE RANCH, NEAR BIG SANDY, WY

LOCATION.--Lat 42°34'17", long 109°16'58", in sec.17, T.30 N., R.104 W., Sublette County, Hydrologic Unit 14040104, on left bank at Leckie Ranch, 0.1 mi (0.2 km) downstream from Squaw Creek, and 10.1 mi (16.3 km) southeast of Big Sandy.

DRAINAGE AREA.--94 mi² (243 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July to November 1910, May to August 1911, July 1939 to current year (no winter records since 1971). Monthly discharge only for some periods, published in WSP 1313. Published as Big Sandy Creek near Big Sandy 1910-11 and in WSP 618, and as Big Sandy Creek at Leckie Ranch, near Big Sandy July 1939 to October 1968.

REVISED RECORDS.--WSP 2125: 1963, 1964(P), 1965.

GAGE.--Water-stage recorder. Altitude of gage is 7,800 ft (2,377 m), by barometer. See WSP 1733 for history of changes prior to July 24, 1939. July 24, 1939, to June 1, 1961, water-stage recorder at site 75 ft (23 m) downstream at present datum.

REMARKS.--Records good except those for winter period and period of no gage-height record, June 25 to Aug. 9, which are poor. Diversions for irrigation of about 750 acres (3.04 km²) above station. Results of discharge measurements, in cubic feet per second, made during the period when station was not in operation, are given below:

Oct. 5 . . 17
Feb. 28 . . 16

AVERAGE DISCHARGE.--32 years (water years 1940-71), 86.0 ft³/s (2.436 m³/s), 62,310 acre-ft/yr (76.8 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,580 ft³/s (44.7 m³/s) June 10, 1965, gage height, 9.06 ft (2.761 m), from rating curve extended above 1,000 ft³/s (28.3 m³/s); minimum daily, 3.0 ft³/s (0.085 m³/s) Dec. 17, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 400 ft³/s (11.3 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
May 29	0100	476	13.5	6.38	1.945	June 16	0430	1,000	28.3	7.89	2.405
June 10	0500	*1,010	28.6	7.91	2.411						

Minimum daily discharge during period of operation, 13 ft³/s (0.37 m³/s) Mar. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1						16	24	63	314	510	135	32
2						16	25	74	335	470	120	31
3						14	24	82	335	430	115	29
4						14	23	83	321	420	105	27
5						13	23	78	419	390	100	25
6						14	24	56	561	370	94	25
7						14	25	57	672	340	88	25
8						15	27	61	760	330	83	28
9						16	29	71	850	340	76	28
10						16	32	87	889	340	70	26
11						16	34	91	601	330	67	27
12						16	36	87	519	320	65	30
13						16	36	94	636	310	77	32
14						15	35	123	846	300	97	32
15						14	34	172	865	290	100	30
16						14	33	232	880	280	86	28
17						14	34	247	750	270	79	28
18						15	36	228	650	270	74	43
19						16	34	204	580	266	66	38
20						17	35	202	560	260	58	37
21						17	33	245	620	250	51	35
22						17	31	292	710	230	48	40
23						17	31	366	707	200	46	43
24						16	35	388	728	180	42	41
25						16	49	351	700	---	39	37
26						17	55	342	590	---	37	35
27						18	58	351	510	---	36	32
28						19	55	305	530	---	36	30
29						20	58	440	550	---	35	28
30						21	61	378	540	---	33	27
31						22	---	312	---	---	32	---
TOTAL						501	1069	6242	18528	---	2190	949
MEAN						16.2	35.6	201	618	---	70.6	31.6
MAX						22	61	440	889	---	135	43
MIN						13	23	56	314	---	32	25
AC-FT						994	2120	12380	36750	---	4340	1880

09212500 BIG SANDY RIVER AT LECKIE RANCH, NEAR BIG SANDY, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to September 1978 (discontinued).

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)
OCT												
05...	1415	17	68	--	9.0	1	--	--	--	--	--	--
16...	1040	20	78	7.4	4.0	1	9.7	21	0	6.8	1.0	1.9
FEB												
28...	1620	A15	68	--	.0	1	--	--	--	--	--	--
APR												
20...	0750	35	78	--	.0	2	--	--	--	--	--	--
MAY												
22...	1530	286	38	--	10.0	3	--	20	0	6.2	1.0	2.9
JUN												
13...	1400	585	--	--	10.5	--	--	--	--	--	--	--
14...	1025	790	25	--	10.5	2	--	15	5	4.7	.7	1.9
21...	1500	623	--	--	11.5	3	--	--	--	--	--	--
22...	1430	665	--	--	12.0	--	--	--	--	--	--	--
JUL												
19...	1100	A266	--	--	11.5	--	--	--	--	--	--	--
19...	1150	A264	14	--	11.5	1	--	--	--	--	--	--
AUG												
02...	1150	A123	23	--	14.0	1	--	11	0	3.9	.4	1.0
SEP												
05...	1330	A23	42	7.1	16.5	1	--	17	0	5.5	.9	1.0

A-Daily mean discharge.

DATE	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)
OCT												
05...	--	--	--	--	--	--	--	--	--	--	--	--
16...	.2	.8	27	0	22	2.7	.7	.0	8.1	36	.05	1.94
FEB												
28...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
20...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
22...	.3	.9	24	0	20	6.6	1.1	.1	9.9	41	.06	31.7
JUN												
13...	--	--	--	--	--	--	--	--	--	--	--	--
14...	.2	.6	12	0	10	4.7	.4	.0	6.0	25	.03	53.3
21...	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
19...	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
02...	.1	.5	13	1	12	1.4	.2	.1	4.3	19	.03	6.31
SEP												
05...	.1	.8	21	0	17	2.9	.4	.0	6.2	28	.04	1.74

09212500 BIG SANDY RIVER AT LECKIE RANCH, NEAR BIG SANDY, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)
OCT												
05...	--	--	--	--	--	--	--	--	--	--	--	--
16...	.01	.01	.00	.00	.06	.10	.07	.00	.10	.02	.01	.01
FEB												
28...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
20...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
22...	--	--	--	--	--	--	--	--	--	.02	.00	--
JUN												
13...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	.02	.01	--
21...	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
19...	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
02...	.01	--	--	--	--	--	--	--	--	.00	.00	--
SEP												
05...	.00	--	--	--	--	--	--	--	--	.02	.02	.02

DATE	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)	PHYTOPLANKTON, TOTAL (CELLS PER ML)	INVERTEBRATES, BENTHIC WET WT. (G/SQ METER)	BIOMASS CHLOROPHYLL RATIO PLANKTON (UNITS)	CHLOR-A PHYTC-PLANKTON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT												
05...	--	--	--	--	--	--	--	--	--	3	.14	--
16...	.03	9	330	8	450	5.9	2000000	.001	.001	6	.32	--
FEB												
28...	--	--	--	--	--	--	--	--	--	3	.12	--
APR												
20...	--	--	--	--	--	--	--	--	--	6	.57	--
MAY												
22...	--	30	260	0	--	--	--	--	--	19	15	--
JUN												
13...	--	--	--	--	--	--	--	--	--	45	71	50
14...	--	30	150	5	--	--	--	--	--	13	28	--
21...	--	--	--	--	--	--	--	--	--	26	44	--
22...	--	--	--	--	--	--	--	--	--	32	57	16
JUL												
19...	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	10	7.1	--
AUG												
02...	--	20	210	0	--	--	--	--	--	16	5.3	--
SEP												
05...	.06	6	270	10	--	--	--	--	--	2	.12	--

DATE	TIME	TEMPERATURE (DEG C)	STREAMFLOW, INSTANTANEOUS (CFS)	NUMBER OF SAMPLING POINTS	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM	BED MAT. FALL DIAM. % FINER THAN 1.00 MM
SEP							
05...	1330	16.5	23	120	1	5	6

DATE	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 128 MM
SEP							
05...	8	9	13	17	32	73	92

09212500 BIG SANDY RIVER AT LECKIE RANCH, NEAR BIG SANDY, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 16,77
TIME	1040
TOTAL CELLS/ML	450
DIVERSITY: DIVISION	1.5
.CLASS	1.5
..ORDER	1.7
...FAMILY	2.4
....GENUS	2.5

ORGANISM	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...HYDRODICTYACEAE		
....PEDIASTRUM	32	7
...SCENEDESMACEAE		
....CRUCIGENIA	190#	43
..VOLVOCALES		
...CHLAMYDOMONADACEAE		
....CHLAMYDOMONAS	8	2
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..CENTRALES		
...COSCINODISCACEAE		
....CYCLOTELLA	16	4
....MELOSIRA	8	2
....STEPHANODISCUS	8	2
..PENNALES		
...GOMPHONEMATACEAE		
....GOMPHONEMA	16	4
...NAVICULACEAE		
....NAVICULA	8	2
...NITZSCHIACEAE		
....NITZSCHIA	24	5
CYANOPHYTA (BLUE-GREEN ALGAE)		
.CYANOPHYCEAE		
..HORMOGONALES		
...OSCILLATORIACEAE		
....OSCILLATORIA	120#	27
...RIVULARIACEAE		
....RAPHIDIOPSIS	16	4

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

09212500 BIG SANDY RIVER AT LECKIE RANCH, NEAR BIG SANDY, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

OCT. 16, 1977
1040 HOURS

IDENTIFICATION OF PERIPHYTON

ORGANISM NAME	COMMON NAME
CHLOROPHYTA	GREEN AGLAE
.CHLOROPHYCEAE	
..CHLOROCOCCALES	
...OOCYSTACEAE	
....ANKISTRODESMUS	
...SCENEDESMACEAE	
....CRUCIGENIA	
....SCENEDESMUS	
..OEDOGONIALES	
...OEDOGONIACEAE	
....OEDOGONIUM	
..ULOTRICHALES	
...MICROSPORACEAE	
....MICROSPORA	
...ULOTRICHACEAE	
....ULOTHRIX	
..ZYGNEMATALES	
...DESMIDIACEAE	PLACODERM DESMIDS
....CLOSTERIUM	
....COSMARIUM	
....STAURASTRUM	
...ZYGNEMATACEAE	
....SPIROGYRA	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..CENTRALES	CENTRIC
...COSCINODISCACEAE	
....MELOSIRA	
..PENNALES	PENNATE
...ACHNANTHACEAE	
....ACHNANTHES	
....COCCONEIS	
...CYMBELLACEAE	
....CYMBELLA	
....EPITHEMIA	
....RHOPALODIA	
...FRAGILARIACEAE	
....FRAGILARIA	
....HANNAEA	
& ....SYNEDRA	
...GOMPHONEMATACEAE	
....GOMPHONEIS	
....GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
....FRUSTULIA	
& ....NAVICULA	
....NEIDIUM	
....PINNULARIA	
....STAURONEIS	
...NITZSCHIACEAE	
....HANTZSCHIA	
& ....NITZSCHIA	
...TABELLARIACEAE	
....TABELLARIA	
CYANOPHYTA	BLUE-GREEN ALGAE
.CYANOPHYCEAE	
..CHAMAESIPHONALES	
...CHAMAESIPHONACEAE	
....ENTOPHYSALIS	
..HORMOGONALES	FILAMENTOUS BL-GREEN
...NOSTOCACEAE	
....ANABAENA	
...OSCILLATORIACEAE	
....MICROCOLEUS	
...RIVULARIACEAE	
....CALOTHRIX	
EUGLENOPHYTA	EUGLENOIDS
.EUGLENOPHYCEAE	
..EUGLENALES	
...EUGLENACEAE	
....PHACUS	
....TRACHELOMONAS	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

09212500 BIG SANDY RIVER AT LECKIE RANCH, NEAR BIG SANDY, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

BENTHIC INVERTEBRATE ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 16,77
TIME	1040
TOTAL COUNT	63
DIVERSITY: PHYLUM	0.0
.CLASS	0.5
..ORDER	2.1
...FAMILY	3.1
....GENUS	3.7
....GENUS-INSECTA	3.5

ORGANISM	COUNT
ARTHROPODA (ARTHROPODS)	
.INSECTA	
..COLEOPTERA	
...ELMIDAE	
....OPTIOSERVUS	1
....ZAITZEVIA	2
..DIPTERA	
...CHIRONOMIDAE	
....BRILLIA	2
....PENTANEURA	1
....POLYPEDILUM	6
....RHEOTANYTARSUS	1
...PSYCHODIDAE	
....PERICOMA	1
...RHAGIONIDAE	
....ATHERIX	2
...TIPULIDAE	
....HEXATOMA	1
..EPHEMEROPTERA	
...EPHEMERELLIDAE	
....EPHEMERELLA	3
..PLECOPTERA	
...PERLIDAE	
....CLAASSENIA	1
...PTERONARCIDAE	
....PTERONARCYS	1
..TRICHOPTERA	
...BRACHYCENTRIDAE	
....BRACHYCENTRUS	1
....MICRASEMA	5
...GLOSSOSOMATIDAE	
....GLOSSOSOMA	4
...HYDROPSYCHIDAE	
....ARCTOPSYCHE	2
..PLECOPTERA	
...CHLOROPERLIDAE	
....ALLOPERLA	4
...PERLIDAE	
....ACRONEURIA	1
..TRICHOPTERA	
...HYDROPSYCHIDAE	
....HYDROPSYCHE	18
.ARACHNIDA	
..HYDRACARINA	
...UNKNOWN FAMILY	
....UNKNOWN GENUS #3	6

09213500 BIG SANDY RIVER NEAR FARSON, WY

LOCATION.--Lat 42°19'01", long 109°29'06", in NW¼SE¼NW¼ sec.17, T.27 N., R.106 W., Sublette County, Hydrologic Unit 14040104, on left upstream side of Eden Canal diversion, about 1.0 mi (1.6 km) upstream from high-water line of Big Sandy Reservoir, 14.5 mi (23.3 km) north of Farson, and 24.5 mi (39.4 km) upstream from Little Sandy Creek.

DRAINAGE AREA.--322 mi^2 (834 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1914 to September 1917, October 1920 to October 1924, October 1926 to September 1934, April 1953 to current year (no winter records since 1971). Prior to October 1968, published as Big Sandy Creek near Farson. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 1733: Drainage area.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,770 ft (2,063 m), from topographic map. Prior to Apr. 28, 1921, nonrecording gage, and Apr. 28, 1921, to Aug. 3, 1934, water-stage recorder at site 0.5 mi (0.8 km) upstream at different datum. Apr. 17, 1953, to Nov. 11, 1954, water-stage recorder at site 1.5 mi (2.4 km) upstream at different datum.

REMARKS.--Records fair. Diversions for irrigation of about 1,000 acres (4.05 km^2) above station. The Eden Canal, which bypasses the station, has not been used since station was established at present site in November 1954. Results of discharge measurements, in cubic feet per second, made during the period when station was not in operation are given below:

Oct. 11 . . 29
Oct. 16 . . 24
Mar. 30 . . 189

AVERAGE DISCHARGE.--33 years (water years 1915-17, 1921-24, 1927-34, 1954-71), 86.5 ft^3/s (2.450 m^3/s), 62,700 acre-ft/yr (77.3 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,480 ft^3/s (41.9 m^3/s) June 9, 1972, gage height, 8.10 ft (2.469 m); no flow Jan. 27-31, 1963, and may have also reached no flow in previous years during periods of ice effect.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 350 ft^3/s (9.91 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
May 29	2330	477	13.5	6.43	1.960
June 11	0300	924	26.2	7.43	2.265
June 17	0800	*930	26.3	7.44	2.268
June 26	0500	745	21.1	7.13	2.173
July 21	2030	380	10.8	5.94	1.811

Minimum daily discharge during period of operation, 22 ft^3/s (0.62 m^3/s) Sept. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							120	62	332	513	142	39
2							100	60	308	492	133	35
3							90	64	344	445	124	32
4							70	76	336	428	115	30
5							56	86	314	402	106	29
6							49	82	408	368	98	28
7							48	69	516	351	93	25
8							50	54	618	314	88	22
9							50	54	680	324	86	23
10							50	56	804	333	82	25
11							50	77	786	333	77	27
12							54	84	534	315	72	31
13							52	77	486	321	75	35
14							54	75	590	286	86	35
15							56	92	786	278	95	33
16							52	141	816	279	101	32
17							49	226	828	261	90	32
18							44	265	655	266	83	40
19							42	233	555	259	78	41
20							46	203	561	248	72	46
21							44	198	513	251	65	41
22							46	240	561	231	60	40
23							42	294	638	228	54	37
24							41	366	642	194	52	38
25							42	398	655	170	50	39
26							48	376	650	156	48	39
27							62	370	513	155	46	35
28							65	376	480	156	45	32
29							56	412	513	153	44	28
30							59	453	525	160	43	26
31							---	396	---	153	42	---
TOTAL							1687	6015	16947	8823	2445	995
MEAN							56.2	194	565	285	78.9	33.2
MAX							120	453	828	513	142	46
MIN							41	54	308	153	42	22
AC-FT							3350	11930	33610	17500	4850	1970

09213500 BIG SANDY RIVER NEAR FARSON, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1963-64, 1975 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
OCT											
11...	1525	28	170	--	10.0	15	--	--	--	--	--
16...	1300	24	120	7.9	11.5	7	42	5	14	1.7	9.5
MAR											
30...	1305	189	280	--	1.0	150	--	--	--	--	--
MAY											
01...	1335	64	175	--	15.5	35	--	--	--	--	--
15...	1430	96	130	--	18.0	75	52	4	17	2.3	7.8
25...	1345	398	60	--	10.5	140	--	--	--	--	--
JUN											
06...	1255	376	80	--	14.0	50	--	--	--	--	--
19...	1240	534	45	--	12.0	65	15	2	4.6	.8	1.9
JUL											
07...	1245	356	42	--	15.0	35	--	--	--	--	--
27...	1030	155	44	--	19.5	--	30	9	10	1.2	2.4
SEP											
06...	1200	29	110	--	20.0	3	37	1	12	1.7	7.7

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	IODIDE, DIS-SOLVED (MG/L AS I)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 105 DEG. C, DIS-SOLVED (MG/L)
OCT											
11...	--	--	--	--	--	--	--	--	--	--	--
16...	.6	1.2	45	0	37	29	3.0	.1	8.6	6.7	80
MAR											
30...	--	--	--	--	--	--	--	--	--	--	--
MAY											
01...	--	--	--	--	--	--	--	--	--	--	--
15...	.5	1.3	58	0	48	15	3.2	.1	--	13	--
25...	--	--	--	--	--	--	--	--	--	--	--
JUN											
06...	--	--	--	--	--	--	--	--	--	--	--
19...	.2	.6	15	0	12	4.3	.4	.0	--	5.5	--
JUL											
07...	--	--	--	--	--	--	--	--	--	--	--
27...	.2	.8	25	0	21	7.5	.7	.1	--	5.6	--
SEP											
06...	.6	1.2	42	1	36	11	1.1	.1	--	6.4	--

09213500 BIG SANDY RIVER NEAR FARSON, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)
OCT											
11...	--	--	--	--	--	--	--	--	--	--	--
16...	96	.13	6.22	9	.01	.00	.01	.01	.06	.09	.06
MAR											
30...	--	--	--	--	--	--	--	--	--	--	--
MAY											
01...	--	--	--	--	--	--	--	--	--	--	--
15...	88	.12	22.8	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--
JUN											
06...	--	--	--	--	--	--	--	--	--	--	--
19...	26	.04	37.5	--	--	--	--	--	--	--	--
JUL											
07...	--	--	--	--	--	--	--	--	--	--	--
27...	41	.06	17.2	--	.03	--	--	--	--	--	--
SEP											
06...	64	.09	5.01	--	.17	--	--	--	--	--	--

DATE	NITRO-GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	PHYTO-PLANK-TON, TOTAL (CELLS PER ML)	IN-VERTE-BRATES, BENTHIC WET WT. (G/SQ METER)
OCT											
11...	--	--	--	--	--	--	--	--	--	--	--
16...	.00	.10	.03	.00	.00	.00	10	30	0	570	.9
MAR											
30...	--	--	--	--	--	--	--	--	--	--	--
MAY											
01...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	.44	.06	--	--	40	140	0	--	--
25...	--	--	--	--	--	--	--	--	--	--	--
JUN											
06...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	.29	.01	--	--	50	190	5	--	--
JUL											
07...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	.23	.00	--	--	20	280	10	--	--
SEP											
06...	--	--	.03	.02	.01	.03	10	780	0	--	--

DATE	TIME	GROSS ALPHA, DIS-SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L)	URANIUM DIS-SOLVED, EXTRAC-TION (UG/L)
OCT									
16...	1300	<1.1	.8	3.4	.7	2.7	.7	.18	.37

09213500 BIG SANDY RIVER NEAR FARSON, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	TEMPERATURE (DEG C)	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM
OCT									
11...	1525	10.0	28	84	6.4	--	--	--	--
16...	1300	11.5	24	79	5.1	--	--	--	--
MAR									
30...	1305	1.0	189	514	262	53	65	80	86
MAY									
01...	1335	15.5	64	176	30	--	--	--	--
15...	1430	18.0	96	396	103	--	--	--	--
25...	1345	10.5	398	1580	1700	27	42	--	--
JUN									
06...	1255	14.0	376	529	537	--	--	--	--
15...	1100	--	804	4160	9030	--	--	--	--
19...	1240	12.0	534	1760	2540	--	--	--	--
23...	1200	15.0	626	2930	4950	--	--	--	--
JUL									
07...	1245	15.0	356	265	255	--	--	--	--
19...	1700	19.0	256	140	97	--	--	--	--
27...	1030	19.5	155	320	134	--	--	--	--
SEP									
06...	1200	20.0	29	15	1.2	--	--	--	--

DATE	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. FALL DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM
OCT								
11...	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--
MAR								
30...	99	100	--	--	--	--	--	--
MAY								
01...	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--
25...	--	--	58	68	76	80	82	94
JUN								
06...	--	--	--	--	--	--	--	--
15...	--	--	9	--	--	--	--	--
19...	--	--	--	--	--	--	--	--
23...	--	--	5	--	--	--	--	--
JUL								
07...	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--
SEP								
06...	--	--	--	--	--	--	--	--

DATE	TIME	TEMPERATURE (DEG C)	STREAMFLOW, INSTANTANEOUS (CFS)	NUMBER OF SAMPLING POINTS	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM
JUN								
06...	1255	14.0	376	--	58	68	76	80
SEP								
06...	1200	20.0	29	18	0	1	22	50

DATE	BED MAT. FALL DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM
JUN							
06...	82	94	--	--	--	--	--
SEP							
06...	56	74	89	96	98	99	100

09213500 BIG SANDY RIVER NEAR FARSON, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 16,77
TIME	1300
TOTAL CELLS/ML	570
DIVERSITY: DIVISION	1.6
.CLASS	1.6
..ORDER	1.7
...FAMILY	3.1
....GENUS	3.2

ORGANISM	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...OOCYSTACEAE		
....ANKISTRODESMUS	47	8
....DICTYOSPHAERIUM	21	4
...SCENEDESMACEAE		
....SCENEDESMUS	53	9
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..CENTRALES		
...COSCINODISCACEAE		
....CYCLOTELLA	11	2
..PENNALES		
...ACHNANTHACEAE		
....ACHNANTHES	5	1
...FRAGILARIACEAE		
....SYNEDRA	95#	17
...GOMPHONEMATACEAE		
....GOMPHONEMA	11	2
...NAVICULACEAE		
....CALONEIS	5	1
....NAVICULA	68	12
...NITZSCHIACEAE		
....NITZSCHIA	120#	21
CRYPTOPHYTA (CRYPTOMONADS)		
.CRYPTOPHYCEAE		
..CRYPTOMONADALES		
...CRYPTOCHRYSIDACEAE		
....CHROOMONAS	5	1
CYANOPHYTA (BLUE-GREEN ALGAE)		
.CYANOPHYCEAE		
..HORMOGONALES		
...NOSTOCACEAE		
....ANABAENA	79	14
...OSCILLATORIACEAE		
....SCHIZOTHRIX	47	8
EUGLENOPHYTA (EUGLENOIDS)		
.EUGLENOPHYCEAE		
..EUGLENALES		
...EUGLENACEAE		
....EUGLENA	5	1

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

09213500 BIG SANDY RIVER NEAR FARSON, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

OCT. 16, 1977
1300 HOURS

IDENTIFICATION OF PERIPHYTON

	_ORGANISM__NAME	_COMMON__NAME
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..CLADOPHORALES	
	...CLADOPHORACEAE	
	....CLADOPHORA	
	..OEDOGONIALES	
	...OEDOGONIACEAE	
	....OEDOGONIUM	
	..ULOTRICHALES	
	...CHAETOPHORACEAE	
	....PROTODERMA	
	..ZYGNEMATALES	
	...DESMIDIACEAE	PLACODERM DESMIDS
	....STAURASTRUM	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..CENTRALES	CENTRIC
	...COSCINODISCACEAE	
	....MELOSIRA	
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
&	....COCCONEIS	
	...CYMBELLACEAE	
	....CYMBELLA	
	....EPITHEMIA	
	....RHOPALODIA	
	...DIATOMACEAE	
	....DIATOMA	
	...FRAGILARIACEAE	
	....FRAGILARIA	
	....SYNEDRA	
	...GOMPHONEMATACEAE	
	....GOMPHONEIS	
&	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
	....NAVICULA	
	....PINNULARIA	
	...NITZSCHIACEAE	
	....NITZSCHIA	
	...SURIRELLACEAE	
	....CYMATOPLEURA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.CYANOPHYCEAE	
	..CHROCCOCCALES	COCCOID BLUE-GREENS
	...CHROCCOCCACEAE	
	....AGMENELLUM	
	..HORMOGONALES	FILAMENTOUS BL-GREEN
	...NOSTOCACEAE	
	....ANABAENA	
	...OSCILLATORIACEAE	
&	....LYNGBYA	
	...RIVULARIACEAE	
	....CALOTHRIX	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

09213500 BIG SANDY RIVER NEAR FARSON, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

BENTHIC INVERTEBRATE ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 16,77
TIME	1300
TOTAL COUNT	32
DIVERSITY: PHYLUM	0.0
.CLASS	0.0
..ORDER	1.8
...FAMILY	2.3
....GENUS	2.6
....GENUS-INSECTA	2.6

ORGANISM	COUNT
ARTHROPODA (ARTHROPODS)	
.INSECTA	
..COLEOPTERA	
...ELMIDAE	
....OPTIOSERVUS	2
..DIPTERA	
...CHIRONOMIDAE	
....CONCHAPELOPIA	1
....ORTHOCLADIUS	14
....TANYTARSUS	1
...RHAGIONIDAE	
....ATHERIX	
.....A.VARIEGATA	1
..EPHEMEROPTERA	
...EPHEMERELLIDAE	
....EPHEMERELLA	1
..PLECOPTERA	
...CHLOROPERLIDAE	
....UNKNOWN GENUS	4
...PTERONARCIDAE	
....PTERONARCELLA	2
..TRICHOPTERA	
...BRACHYCENTRIDAE	
....BRACHYCENTRUS	4
..PLECOPTERA	
...PERLODIDAE	
....ARCYNOPTERYX	2

09214500 LITTLE SANDY CREEK ABOVE EDEN, WY

LOCATION.--Lat 42°14'12", long 109°18'44", in SE¼SW¼SW¼ sec.11, T.26 N., R.105 W., Sweetwater County, Hydrologic Unit 14040104, on right bank 1.6 mi (2.6 km) upstream from diversion to Eden No. 2 Reservoir, 11 mi (18 km) northeast of Farson, and 14 mi (23 km) northeast of Eden.

DRAINAGE AREA.--134 mi^2 (347 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1954 to current year.

REVISED RECORDS.--WDR WY-76-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,750 ft (2,057 m), from topographic map.

REMARKS.--Records good except those for winter period, which are poor. Diversions above station for irrigation of about 1,220 acres (4.94 km^2), of which about 150 acres (61 hm^2) are below station.

AVERAGE DISCHARGE.--24 years, 18.7 ft^3/s (0.530 m^3/s), 13,550 acre-ft/yr (16.7 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 386 ft^3/s (10.9 m^3/s) June 17, 1963, gage height, 8.57 ft (2.612 m); maximum gage height, 10.34 ft (3.152 m) Apr. 6, 1976 (backwater from ice); no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 178 ft^3/s (5.04 m^3/s) June 18, gage height, 7.98 ft (2.432 m); maximum gage height, 8.73 ft (2.661 m) Mar. 29 (backwater from ice); minimum daily discharge, 1.6 ft^3/s (0.05 m^3/s) Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	7.2	5.1	5.0	5.2	5.7	62	28	48	118	44	7.6
2	1.8	8.0	4.9	4.8	5.4	5.3	50	27	42	118	40	7.9
3	2.0	9.0	4.8	4.6	5.5	5.0	42	29	39	118	33	7.9
4	2.5	9.5	5.0	4.5	5.7	4.8	34	29	41	105	30	7.6
5	2.5	9.9	5.5	4.8	5.8	5.0	28	30	40	96	26	7.9
6	3.2	9.9	5.8	5.0	5.7	5.3	26	31	45	90	23	7.4
7	4.1	9.6	6.0	5.2	5.4	5.6	24	29	53	82	23	7.2
8	5.3	9.0	6.0	5.3	5.6	5.8	25	22	59	77	22	7.2
9	5.3	8.8	5.8	5.2	5.3	6.0	26	21	73	66	23	6.9
10	5.6	9.1	5.7	5.1	5.1	6.4	24	22	94	69	26	6.9
11	7.9	9.7	6.0	5.3	5.3	6.6	22	29	120	71	25	7.4
12	7.2	11	6.3	5.4	5.0	6.6	21	32	154	75	24	7.6
13	6.9	11	5.8	5.4	4.8	6.4	22	27	124	74	22	7.4
14	6.7	10	6.4	5.5	4.7	6.2	22	25	100	77	24	7.6
15	6.9	9.6	6.8	5.4	4.5	6.0	23	26	104	71	26	6.9
16	6.7	8.7	6.2	5.3	4.4	5.5	22	38	138	73	26	5.9
17	6.7	7.6	5.6	5.2	4.2	5.3	20	56	158	73	20	6.9
18	6.7	7.0	5.0	5.1	4.0	5.2	18	71	173	69	20	8.5
19	6.7	6.6	4.5	5.0	4.2	5.4	16	78	146	69	20	12
20	6.7	6.2	4.3	4.9	4.5	5.6	16	62	112	63	16	12
21	7.6	5.8	4.2	4.8	4.7	5.8	16	45	102	56	14	9.9
22	13	5.8	4.2	4.7	5.2	6.1	16	42	96	59	13	8.8
23	14	6.3	4.3	4.6	5.5	6.6	16	49	105	49	12	7.4
24	10	6.6	4.4	4.5	5.6	7.4	14	56	119	45	12	7.2
25	8.2	7.3	4.5	4.4	5.8	8.0	14	58	138	39	10	6.7
26	7.6	8.2	4.5	4.5	6.0	9.1	16	53	153	38	8.5	6.2
27	7.6	7.4	4.4	4.6	6.1	12	21	49	162	36	8.5	5.7
28	7.6	6.5	4.3	4.7	6.0	20	26	51	127	38	8.2	5.7
29	7.6	6.0	4.5	4.8	---	33	25	52	107	40	8.2	5.5
30	7.9	5.4	4.7	4.9	---	43	25	59	112	42	8.5	5.3
31	7.3	---	5.0	5.0	---	54	---	56	---	44	7.9	---
TOTAL	201.4	242.7	160.5	153.5	145.2	318.7	732	1282	3084	2140	623.8	225.1
MEAN	6.50	8.09	5.18	4.95	5.19	10.3	24.4	41.4	103	69.0	20.1	7.50
MAX	14	11	6.8	5.5	6.1	54	62	78	173	118	44	12
MIN	1.6	5.4	4.2	4.4	4.0	4.8	14	21	39	36	7.9	5.3
AC-FT	399	481	318	304	288	632	1450	2540	6120	4240	1240	446

CAL YR 1977 TOTAL 2516.80 MEAN 6.90 MAX 79 MIN .07 AC-FT 4990
WTR YR 1978 TOTAL 9308.90 MEAN 25.5 MAX 173 MIN 1.6 AC-FT 18460

09214500 LITTLE SANDY CREEK ABOVE EDEN, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1963-64, 1969, 1975 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
OCT											
05...	1210	2.5	440	--	9.0	9	--	--	--	--	--
11...	0900	7.9	370	--	1.0	--	120	38	36	6.5	42
16...	1650	6.4	365	8.4	11.5	15	110	30	34	6.3	34
31...	1100	A7.3	450	--	1.5	14	--	--	--	--	--
NOV											
28...	1430	A6.5	330	--	.0	--	110	34	33	6.2	37
DEC											
02...	1520	A4.9	520	--	.0	7	--	--	--	--	--
19...	0915	A4.5	340	--	.0	--	98	34	30	5.6	35
29...	1240	A4.5	320	--	.0	10	--	--	--	--	--
JAN											
18...	1000	A5.1	290	--	.0	--	93	28	29	4.9	26
FEB											
02...	1325	A5.4	420	--	.0	7	--	--	--	--	--
MAR											
13...	1315	A6.4	450	--	.0	13	--	--	--	--	--
15...	0930	A6.0	550	--	.0	--	150	36	47	8.1	58
22...	1130	A6.1	380	--	.0	25	--	--	--	--	--
APR											
06...	1215	27	620	--	7.5	45	--	--	--	--	--
28...	0930	26	330	--	7.0	--	97	17	29	5.9	33
MAY											
01...	1140	30	460	--	8.5	30	--	--	--	--	--
24...	1000	58	280	7.6	11.5	--	58	6	17	3.8	20
25...	1100	60	160	--	12.0	70	--	--	--	--	--
JUN											
06...	1535	51	210	--	18.0	40	--	--	--	--	--
16...	0930	134	140	8.2	14.0	--	37	2	11	2.2	8.3
16...	1535	141	110	--	17.0	90	--	--	--	--	--
JUL											
07...	0950	80	110	--	14.0	40	--	--	--	--	--
27...	1340	36	130	--	22.0	--	--	--	--	--	--
AUG											
02...	0730	41	180	7.3	15.0	--	41	12	13	2.0	7.4
30...	0930	8.5	210	8.1	14.0	--	59	13	18	3.5	18
SEP											
06...	1015	7.6	240	--	15.0	2	--	--	--	--	--
27...	0930	5.9	250	7.8	9.0	--	81	24	26	4.0	22

A-Daily mean discharge.

09214500 LITTLE SANDY CREEK ABOVE EDEN, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	IODIDE, DIS-SOLVED (MG/L AS I)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 105 DEG. C, DIS-SOLVED (MG/L)
OCT											
05...	--	--	--	--	--	--	--	--	--	--	--
11...	1.7	2.0	96	--	79	120	8.2	.2	--	7.7	--
16...	1.4	1.8	98	0	80	99	5.3	.2	8.8	7.3	240
31...	--	--	--	--	--	--	--	--	--	--	--
NOV											
28...	1.6	1.5	90	--	74	96	7.1	.3	--	11	--
DEC											
02...	--	--	--	--	--	--	--	--	--	--	--
19...	1.5	1.5	78	--	64	110	6.8	.3	--	11	--
29...	--	--	--	--	--	--	--	--	--	--	--
JAN											
18...	1.2	1.5	79	--	65	67	4.9	.2	--	13	--
FEB											
02...	--	--	--	--	--	--	--	--	--	--	--
MAR											
13...	--	--	--	--	--	--	--	--	--	--	--
15...	2.1	2.7	140	--	110	150	13	.4	--	10	--
22...	--	--	--	--	--	--	--	--	--	--	--
APR											
06...	--	--	--	--	--	--	--	--	--	--	--
28...	1.5	1.8	97	--	80	76	7.9	.3	--	11	--
MAY											
01...	--	--	--	--	--	--	--	--	--	--	--
24...	1.1	1.4	63	0	52	39	4.5	.1	--	10	151
25...	--	--	--	--	--	--	--	--	--	--	--
JUN											
06...	--	--	--	--	--	--	--	--	--	--	--
16...	.6	1.2	42	0	34	16	1.9	.1	--	7.7	--
16...	--	--	--	--	--	--	--	--	--	--	--
JUL											
07...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
AUG											
02...	.5	.8	35	0	29	20	1.4	.1	--	5.9	--
30...	1.0	1.4	57	0	47	43	2.3	.1	--	5.6	--
SEP											
06...	--	--	--	--	--	--	--	--	--	--	--
27...	1.1	1.9	70	0	57	58	21	.2	--	4.9	--

09214500 LITTLE SANDY CREEK ABOVE EDEN, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)
OCT											
05...	--	--	--	--	--	--	--	--	--	--	--
11...	270	.37	5.76	--	.09	.03	--	.03	.04	--	--
16...	245	.33	4.23	24	--	.00	.00	.00	.00	.29	.20
31...	--	--	--	--	--	--	--	--	--	--	--
NOV											
28...	237	.32	4.16	--	--	.06	--	--	--	--	--
DEC											
02...	--	--	--	--	--	--	--	--	--	--	--
19...	239	.33	2.90	--	--	.03	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
JAN											
18...	186	.25	2.56	--	.18	.06	--	.00	.00	--	--
FEB											
02...	--	--	--	--	--	--	--	--	--	--	--
MAR											
13...	--	--	--	--	--	--	--	--	--	--	--
15...	367	.50	5.95	--	--	.10	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
APR											
06...	--	--	--	--	--	--	--	--	--	--	--
28...	213	.29	15.0	--	.02	.04	--	.00	.00	--	--
MAY											
01...	--	--	--	--	--	--	--	--	--	--	--
24...	127	.17	19.9	269	--	.06	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--
JUN											
06...	--	--	--	--	--	--	--	--	--	--	--
16...	69	.09	25.0	--	--	.01	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
JUL											
07...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
AUG											
02...	68	.09	7.53	--	.05	.03	--	.02	.03	--	--
30...	121	.16	2.78	--	--	.12	--	--	--	--	--
SEP											
06...	--	--	--	--	--	--	--	--	--	--	--
27...	176	.24	2.80	--	--	.71	--	--	--	--	--

09214500 LITTLE SANDY CREEK ABOVE EDEN, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	PHYTOPLANKTON, TOTAL (CELLS PER ML)	INVERTEBRATES, BENTHIC WET WT. (G/SQ METER)
OCT											
05...	--	--	--	--	--	--	--	--	--	--	--
11...	.05	--	--	.14	.62	.07	--	--	--	--	--
16...	.29	.09	.20	--	--	.05	.02	.00	.00	400	.0
31...	--	--	--	--	--	--	--	--	--	--	--
NOV											
28...	--	--	--	--	--	.05	--	--	--	--	--
DEC											
02...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	.02	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
JAN											
18...	.21	--	--	.39	1.7	.05	--	--	--	--	--
FEB											
02...	--	--	--	--	--	--	--	--	--	--	--
MAR											
13...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	.11	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
APR											
06...	--	--	--	--	--	--	--	--	--	--	--
28...	.57	--	--	.59	2.6	.11	--	--	--	--	--
MAY											
01...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	.31	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--
JUN											
06...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	.09	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
JUL											
07...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
AUG											
02...	.48	--	--	.53	2.3	.11	--	--	--	--	--
30...	--	--	--	--	--	.04	--	--	--	--	--
SEP											
06...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	.03	--	--	--	--	--

09214500 LITTLE SANDY CREEK ABOVE EDEN, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)
OCT 16...	1650	--	--	--	--	--	--	40	--	--	--
SEP 27...	0930	180	0	0	1	0	0	--	3	3	0

DATE	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)
OCT 16...	--	--	--	--	50	--	--	--	--	--	20
SEP 27...	0	6	6	340	230	22	16	2	9	10	10

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)
OCT 16...	--	--	--	--	--	--	--	--	--	--	--
SEP 27...	.0	.4	4	1	0	1	0	0	.0	10	10

DATE	TIME	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DISSOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DISSOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DISSOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DISSOLVED (UG/L AS U)
OCT 16...	1650	<4.4	1.4	4.2	2.2	3.4	1.9	.11	.9
MAY 24...	1000	<1.0	14	3.2	10	2.9	9.5	.06	.5

09214500 LITTLE SANDY CREEK ABOVE EDEN, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	TEMPER-ATURE (DEG C)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM
OCT											
05...	1210	9.0	2.5	17	.11	--	--	--	--	--	--
16...	1650	11.3	6.4	37	.64	--	--	--	--	--	--
31...	1100	1.5	A7.3	40	.79	--	--	--	--	--	--
DEC											
02...	1520	.0	A4.9	14	.19	--	--	--	--	--	--
29...	1240	.0	A4.5	14	.17	--	--	--	--	--	--
FEB											
02...	1325	.0	A5.4	10	.15	--	--	--	--	--	--
MAR											
13...	1315	.0	A6.4	24	.41	--	--	--	--	--	--
22...	1130	.0	A6.1	92	1.5	--	--	--	--	--	--
APR											
06...	1215	7.5	27	166	12	--	--	--	--	--	--
MAY											
01...	1140	8.5	30	119	9.6	--	--	--	--	--	--
25...	1100	12.0	60	362	59	--	--	--	--	--	--
JUN											
06...	1535	18.0	51	168	23	--	--	--	--	--	--
15...	1530	17.5	156	1560	657	85	--	--	--	--	--
16...	1440	17.0	142	409	157	--	41	60	88	98	100
24...	1430	18.0	117	340	107	74	--	--	--	--	--
JUL											
07...	0950	14.0	80	216	47	--	--	--	--	--	--
19...	1415	19.0	69	152	28	--	--	--	--	--	--
27...	1340	22.0	36	118	11	--	--	--	--	--	--
SEP											
06...	1015	15.0	7.6	5	.10	--	--	--	--	--	--

A-Daily mean discharge.

DATE	TIME	TEMPER-ATURE (DEG C)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	NUMBER OF SAM-PLING POINTS	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM	BED MAT. FALL DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM
SEP											
06...	1015	15.0	7.6	17	0	0	5	72	89	99	100

09214500 LITTLE SANDY CREEK ABOVE EDEN, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

PHYTOPLANKTON ANALYSES

DATE	OCT 16,77
TIME	1650
TOTAL CELLS/ML	400
DIVERSITY: DIVISION	1.1
.CLASS	1.1
..ORDER	2.0
...FAMILY	3.3
....GENUS	3.5

ORGANISM	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...CHARACIACEAE		
....SCHROEDERIA	22	6
...OOCYSTACEAE		
....ANKISTRODESMUS	34	8
...SCENEDESMACEAE		
....SCENEDESMUS	45	11
..VOLVOCALES		
...CHLAMYDOMONADACEAE		
....CHLAMYDOMONAS	11	3
..ZYGNEMATALES		
...ZYGNEMATACEAE		
....MOUGEOTIA	45	11
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..CENTRALES		
...COSCINODISCACEAE		
....CYCLOTELLA	45	11
..PENNALES		
...ACHNANTHACEAE		
....COCCONEIS	11	3
...CYMBELLACEAE		
....EPITHEMIA	34	8
....RHOPALODIA	22	6
...DIATOMACEAE		
....DIATOMA	11	3
...GOMPHONEMATACEAE		
....GOMPHONEMA	11	3
...NAVICULACEAE		
....NAVICULA	11	3
...NITZSCHIACEAE		
....NITZSCHIA	90#	22
EUGLENOPHYTA (EUGLENOIDS)		
.EUGLENOPHYCEAE		
..EUGLENALES		
...EUGLENACEAE		
....EUGLENA	11	3

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

09214500 LITTLE SANDY CREEK ABOVE EDEN, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

OCT. 16, 1977
1650 HOURS

IDENTIFICATION OF PERIPHYTON

ORGANISM NAME	COMMON NAME
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..CHLOROCOCCALES	
...SCENEDESMACEAE	
....SCENEDESMUS	
..ULOTRICHALES	
...ULOTRICHACEAE	
....GEMINELLA	
..ZYGNEMATALES	
...DESMIDIACEAE	PLACODERM DESMIDS
....COSMARIUM	
...ZYGNEMATACEAE	
....MOUGEOTIA	
....SPIROGYRA	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..CENTRALES	CENTRIC
...COSCINODISCACEAE	
....MELOSIRA	
..PENNALES	PENNATE
...ACHNANTHACEAE	
....COCCONEIS	
...CYMBELLACEAE	
....CYMBELLA	
....EPITHEMIA	
....RHOPALODIA	
...FRAGILARIACEAE	
....FRAGILARIA	
....SYNEDRA	
...NAVICULACEAE	NAVICULOID
....CALONEIS	
....GYROSIGMA	
& ....NAVICULA	
...NITZSCHIACEAE	
& ....NITZSCHIA	
...SURIRELLACEAE	
....SURIRELLA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

09214500 LITTLE SANDY CREEK ABOVE EDEN, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

BENTHIC INVERTEBRATE ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 16,77
TIME	1650
TOTAL COUNT	61
DIVERSITY: PHYLUM	0.0
.CLASS	0.0
..ORDER	1.0
...FAMILY	2.0
....GENUS	3.2
....GENUS-INSECTA	3.2

ORGANISM	COUNT
ARTHROPODA (ARTHROPODS)	
.INSECTA	
..COLEOPTERA	
...ELMIDAE	
....DUBIRAPHIA	1
....OPTIOSERVUS	1
..DIPTERA	
...CERATOPOGONIDAE	
....UNKNOWN GENUS	1
...CHIRONOMIDAE	
....BRILLIA	1
....CONCHAPELOPIA	1
....ORTHOCLADIUS	7
....PSECTROTANYPUS	2
....RHEOTANYTARSUS	4
....SMITTIA	7
....STEMPELLINA	1
....THIENEMANNIELLA	1
...PSYCHODIDAE	
....TELMATOSCOPUS	13
...SIMULIIDAE	
....SIMULIUM	1
...TIPULIDAE	
....DICRANOTA	1
....ERIOPTERA	1
..EPHEMEROPTERA	
...TRICORYTHIDAE	
....TRICORYTHODES	17
..DIPTERA	
...CHIRONOMIDAE	
....UNKNOWN GENUS #5	1

09216000 BIG SANDY RIVER BELOW EDEN, WY

LOCATION.--Lat 42°00'37", long 109°34'57", in NE¼SE¼SW¼ sec.31, T.24 N., R.107 W., Sweetwater County, Hydrologic Unit 14040104, on right bank 0.1 mi (0.2 km) downstream from Simpson Gulch, 8.0 mi (12.9 km) southwest of Eden, and 12.5 mi (20.1 km) downstream from Little Sandy Creek.

DRAINAGE AREA.--1,610 mi² (4,170 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1954 to current year. Prior to October 1968, published as Big Sandy Creek below Eden.

GAGE.--Water-stage recorder. Altitude of gage is 6,450 ft (1,966 m), from topographic map.

REMARKS.--Records good except those for winter period, which are poor. Natural flow of stream affected by storage reservoirs and diversions for irrigation of about 19,300 acres (78.1 km²) above station.

AVERAGE DISCHARGE.--24 years, 46.6 ft³/s (1.320 m³/s), 33,760 acre-ft/yr (41.6 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,440 ft³/s (40.8 m³/s) Mar. 28, 1971, gage height, 6.47 ft (1.972 m), from floodmarks; maximum gage height, 7.22 ft (2.201 m) Mar. 20, 1956 (backwater from ice); minimum daily dishcarge, 0.1 ft³/s (0.003 m³/s) Feb. 24, Feb. 26 to Mar. 1, 1960.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 263 ft³/s (7.45 m³/s) Mar. 28, gage height, 3.34 ft (1.018 m); minimum daily, 12 ft³/s (0.34 m³/s) Feb. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	25	22	16	14	17	182	22	23	43	56	68
2	25	27	22	14	15	16	217	22	23	42	58	65
3	25	26	21	13	16	16	152	22	23	44	56	64
4	25	26	22	13	17	15	97	22	23	47	56	69
5	25	26	21	14	18	16	68	22	24	56	54	70
6	28	26	19	16	17	17	51	24	24	56	58	73
7	31	26	18	16	17	17	44	26	23	56	60	72
8	31	23	19	15	16	18	39	29	23	57	62	68
9	30	18	19	15	16	17	40	27	23	58	59	69
10	29	22	19	16	17	17	41	26	23	64	54	70
11	28	25	18	16	17	16	37	36	23	68	51	72
12	30	26	17	17	16	18	32	58	23	59	50	73
13	31	23	17	17	16	17	29	47	25	51	52	70
14	30	24	17	17	15	17	28	35	26	52	69	65
15	29	25	18	16	14	18	27	27	28	51	88	60
16	29	23	17	16	13	18	26	24	31	58	83	60
17	28	19	16	17	12	33	26	25	40	60	73	60
18	28	20	16	16	13	44	26	31	43	59	68	86
19	27	20	15	16	14	36	26	41	46	55	62	88
20	28	19	14	15	15	110	26	77	52	54	59	75
21	32	18	14	14	17	120	25	47	48	51	59	60
22	33	17	13	14	18	120	25	32	40	52	60	56
23	31	18	14	13	18	112	24	26	39	57	60	53
24	30	19	14	13	18	84	24	22	37	54	57	51
25	29	20	15	14	17	82	24	22	41	49	56	48
26	28	21	15	14	18	107	24	27	43	50	54	47
27	27	24	15	15	17	147	23	25	46	48	56	46
28	27	24	14	15	17	205	23	23	51	54	56	46
29	27	24	14	14	---	199	22	23	53	54	58	44
30	27	23	15	15	---	184	22	24	50	56	61	43
31	25	---	16	15	---	174	---	23	---	57	61	---
TOTAL	878	677	526	467	448	2029	1450	937	1017	1672	1866	1891
MEAN	28.3	22.6	17.0	15.1	16.0	65.5	48.3	30.2	33.9	53.9	60.2	63.0
MAX	33	27	22	17	18	205	217	77	53	68	88	88
MIN	25	17	13	13	12	15	22	22	23	42	50	43
AC-FT	1740	1340	1040	926	889	4020	2880	1860	2020	3320	3700	3750

CAL YR 1977 TOTAL 11215 MEAN 30.7 MAX 286 MIN 13 AC-FT 22240
WTR YR 1978 TOTAL 13858 MEAN 38.0 MAX 217 MIN 12 AC-FT 27490

09216000 BIG SANDY RIVER BELOW EDEN, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1962-64, 1968 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
OCT												
11...	1100	28	2850	8.1	4.0	1	11.0	21	910	710	230	81
11...	1340	28	3600	--	9.0	2	--	--	--	--	--	--
15...	1340	28	3000	8.2	11.5	60	10.8	--	1000	770	240	98
NOV												
02...	1115	25	3500	--	4.0	2	--	--	--	--	--	--
28...	1300	A24	3000	8.0	3.5	5	11.4	K2	910	670	220	86
DEC												
02...	1245	A22	4000	--	1.0	9	--	--	--	--	--	--
19...	1030	A15	3300	8.0	.0	9	11.6	K5	1100	830	270	110
29...	1430	A14	3500	--	.5	3	--	--	--	--	--	--
JAN												
18...	1130	A16	3200	8.0	3.5	0	11.8	K2	1200	950	230	140
FEB												
02...	1640	A15	4300	--	1.0	5	--	--	--	--	--	--
MAR												
10...	1155	A17	2800	--	1.5	28	--	--	--	--	--	--
15...	1100	A18	3200	8.1	1.5	4	11.4	K3	1100	880	220	140
25...	1200	78	1560	8.1	3.0	250	--	--	390	230	95	37
APR												
06...	1420	50	2300	--	11.5	80	--	--	--	--	--	--
28...	1130	A24	3500	8.3	9.0	7	10.3	K8	740	480	140	96
MAY												
01...	1530	23	3200	--	14.5	9	--	--	--	--	--	--
24...	1145	A22	3100	8.3	13.0	125	9.2	K22	730	460	180	68
25...	1640	23	2800	--	17.5	50	--	--	--	--	--	--
JUN												
12...	1215	23	3000	--	19.0	3	--	--	--	--	--	--
16...	1100	30	2500	8.5	15.0	15	9.6	160	570	320	140	51
JUL												
07...	1510	54	1600	--	24.5	15	--	--	--	--	--	--
31...	1620	57	1800	--	21.0	--	--	--	--	--	--	--
AUG												
02...	0930	59	1750	8.0	14.0	20	9.0	100	490	300	130	43
30...	1115	60	2000	8.1	16.5	5	9.3	120	420	220	77	55
SEP												
06...	1425	73	2600	--	20.0	7	--	--	--	--	--	--
27...	1100	46	2800	8.2	10.0	3	10.2	42	820	610	210	72

A-Daily mean discharge.
K-Results based on colony count outside the acceptable range (non-ideal colony count).

09216000 BIG SANDY RIVER BELOW EDEN, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
OCT												
11...	470	6.8	4.4	240	0	200	1600	62	1.0	12	2580	3.51
11...	--	--	--	--	--	--	--	--	--	--	--	--
15...	420	5.8	4.9	280	0	230	1600	58	.8	10	2570	3.50
NOV												
02...	--	--	--	--	--	--	--	--	--	--	--	--
28...	430	6.2	3.7	290	0	240	1500	57	1.1	12	2460	3.35
DEC												
02...	--	--	--	--	--	--	--	--	--	--	--	--
19...	480	6.2	3.5	330	0	270	1800	58	.8	17	2910	3.96
29...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
18...	460	5.9	4.4	300	0	250	1800	56	1.2	14	2860	3.89
FEB												
02...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
10...	--	--	--	--	--	--	--	--	--	--	--	--
15...	420	5.4	3.7	270	0	220	1600	54	.2	15	2590	3.52
25...	270	6.0	3.8	200	0	160	740	44	--	7.7	1300	1.77
APR												
06...	--	--	--	--	--	--	--	--	--	--	--	--
28...	600	9.6	4.7	320	0	260	1670	54	3.3	.2	2730	3.71
MAY												
01...	--	--	--	--	--	--	--	--	--	--	--	--
24...	540	8.7	5.4	330	0	270	1500	59	1.3	6.2	2530	3.44
25...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
12...	--	--	--	--	--	--	--	--	--	--	--	--
16...	330	6.1	4.2	260	24	250	910	50	1.3	9.0	1650	2.24
JUL												
07...	--	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
02...	200	3.9	.1	230	0	190	700	30	.9	9.0	1230	1.67
30...	280	6.0	3.0	240	0	200	770	37	1.0	11	1350	1.84
SEP												
06...	--	--	--	--	--	--	--	--	--	--	--	--
27...	360	5.5	3.5	260	0	210	1300	49	1.0	7.5	2130	2.90

09216000 BIG SANDY RIVER BELOW EDEN, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SOLIDS, DIS-SOLVED (TONS PER DAY)	SOLIDS, SUSP. TOTAL, RESIDUE AT 110 DEG. C (MG/L)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)
OCT												
11...	195	--	.59	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--	--
15...	194	--	--	--	.33	.01	.00	.00	.34	.28	.35	.07
NOV												
02...	--	--	--	--	--	--	--	--	--	--	--	--
28...	159	18	.81	.73	--	.04	--	--	.77	--	.81	--
DEC												
02...	--	--	--	--	--	--	--	--	--	--	--	--
19...	118	21	1.3	1.0	--	.27	--	--	.48	--	.75	--
29...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
18...	124	10	1.2	1.0	--	.09	--	--	.26	--	.35	--
FEB												
02...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
10...	--	--	--	--	--	--	--	--	--	--	--	--
15...	126	15	.61	.62	--	.03	--	--	.48	--	.51	--
25...	274	--	--	--	.39	--	--	--	--	--	2.1	1.4
APR												
06...	--	--	--	--	--	--	--	--	--	--	--	--
20...	177	13	.05	.17	--	.09	--	--	.68	--	.77	--
MAY												
01...	--	--	--	--	--	--	--	--	--	--	--	--
24...	150	320	.86	.11	--	.03	--	--	1.2	--	1.2	--
25...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
12...	--	--	--	--	--	--	--	--	--	--	--	--
16...	134	22	.05	.03	--	.05	--	--	.95	--	1.0	--
JUL												
07...	--	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
02...	196	39	.43	.15	--	.01	--	--	.70	--	.71	--
30...	219	19	.36	.33	--	.05	--	--	.69	--	.74	--
SEP												
06...	--	--	--	--	--	--	--	--	--	--	--	--
27...	322	0	.47	.46	--	.00	--	--	1.3	--	1.3	--

09216000 BIG SANDY RIVER BELOW EDEN, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CARBON, ORGANIC SUSPENDED TOTAL (MG/L AS C)	PHYTOPLANKTON, TOTAL (CELLS PER ML)	INVERTEBRATES, BENTHIC WET WT. (G/SQ METER)
OCT											
11...	--	--	--	.00	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--
15...	.28	--	--	.00	.00	.00	.00	--	--	2700	2.2
NOV											
02...	--	--	--	--	--	--	--	--	--	--	--
28...	--	1.5	6.8	.00	--	--	--	--	--	--	--
DEC											
02...	--	--	--	--	--	--	--	--	--	--	--
19...	--	1.8	7.7	.00	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
JAN											
18...	--	1.4	6.0	.01	--	--	--	--	--	--	--
FEB											
02...	--	--	--	--	--	--	--	--	--	--	--
MAR											
10...	--	--	--	--	--	--	--	--	--	--	--
15...	--	1.1	5.0	.06	--	--	--	--	--	--	--
25...	.68	--	--	.95	--	.01	.03	--	--	--	--
APR											
06...	--	--	--	--	--	--	--	--	--	--	--
28...	--	.94	4.2	.00	--	--	--	9.2	.7	--	--
MAY											
01...	--	--	--	--	--	--	--	--	--	--	--
24...	--	1.3	5.8	.03	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--
JUN											
12...	--	--	--	--	--	--	--	--	--	--	--
16...	--	1.0	4.6	.00	--	--	--	--	--	--	--
JUL											
07...	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--
AUG											
02...	--	.86	3.8	.11	--	--	--	--	--	--	--
30...	--	1.1	4.7	.04	--	--	--	--	--	--	--
SEP											
06...	--	--	--	--	--	--	--	--	--	--	--
27...	--	1.8	7.8	.01	--	--	--	--	--	--	--

09216000 BIG SANDY RIVER BELOW EDEN, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, SUSPENDED RECOV. (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUSPENDED TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	BERYLLIUM, SUSPENDED RECOV. (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BORON, TOTAL RECOVERABLE (UG/L AS B)	BORON, DISSOLVED (UG/L AS B)
OCT												
15...	1340	--	--	--	--	--	--	--	--	--	--	450
NOV												
28...	1300	--	--	--	--	--	--	--	--	--	520	--
DEC												
19...	1030	--	--	--	--	--	--	--	--	--	480	--
JAN												
18...	1130	--	--	--	--	--	--	--	--	--	420	--
MAR												
15...	1100	--	--	--	--	--	--	--	--	--	460	--
25...	1200	--	--	--	--	--	--	--	--	--	--	--
APR												
28...	1130	380	380	0	2	1	1	0	0	0	600	--
MAY												
24...	1145	--	--	--	--	--	--	--	--	--	530	--
JUN												
16...	1100	--	--	--	--	--	--	--	--	--	430	--
AUG												
02...	0930	--	--	--	--	--	--	--	--	--	350	--
30...	1115	--	--	--	--	--	--	--	--	--	390	--
SEP												
27...	1100	--	--	--	--	--	--	--	--	--	410	--

DATE	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)
OCT												
15...	--	--	--	--	--	--	--	--	--	--	20	--
NOV												
28...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
19...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
18...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
15...	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	30	--
APR												
28...	2	0	4	0	0	0	3	1	2	390	20	16
MAY												
24...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
16...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
02...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
27...	--	--	--	--	--	--	--	--	--	--	--	--

09216000 BIG SANDY RIVER BELOW EDEN, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)	LITHIUM SUS-PENDED RECOV-ERABLE (UG/L AS LI)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO)
OCT												
15...	--	--	--	--	--	--	--	30	--	--	--	--
NOV												
28...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
19...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
18...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
15...	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
28...	6	10	50	0	60	50	40	10	.0	.0	.0	15
MAY												
24...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
16...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
02...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
27...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	MOLYB-DENUM, SUS-PENDED RECOV. (UG/L AS MO)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, SUS-PENDED RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, SUS-PENDED TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT											
15...	--	--	--	--	--	--	--	--	--	--	--
NOV											
28...	--	--	--	--	--	--	--	--	--	--	--
DEC											
19...	--	--	--	--	--	--	--	--	--	--	--
JAN											
18...	--	--	--	--	--	--	--	--	--	--	--
MAR											
15...	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--
APR											
28...	6	9	7	7	0	1	0	1	20	0	20
MAY											
24...	--	--	--	--	--	--	--	--	--	--	--
JUN											
16...	--	--	--	--	--	--	--	--	--	--	--
AUG											
02...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
SEP											
27...	--	--	--	--	--	--	--	--	--	--	--

09216000 BIG SANDY RIVER BELOW EDEN, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	PCB, TOTAL (UG/L)	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG)	NAPHTHALENES, POLYCHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	CHLORDANE, TOTAL (UG/L)	CHLORDANE, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDD, TOTAL (UG/L)	DDD, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDE, TOTAL (UG/L)
OCT											
11...	1100	.0	0	.00	.00	.0	.0	0	.00	.0	.00
MAY											
24...	1145	.0	0	.00	.00	.0	.0	0	.00	.0	.00
SEP											
27...	1100	.0	--	.00	.00	--	.0	--	.00	--	.00

DATE	DDE, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOTTOM MATERIAL (UG/KG)	DIAZINON, TOTAL (UG/L)	DIELDRIN TOTAL (UG/L)	DIELDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	ENDOSULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	ETHION, TOTAL (UG/L)
OCT										
11...	.0	.00	.0	.00	.00	.0	.00	.00	.0	.00
MAY										
24...	.0	.00	.0	.00	.00	.0	.00	.00	.0	.00
SEP										
27...	--	.00	--	.00	.00	--	.00	.00	--	.00

DATE	HEPTACHLOR, TOTAL (UG/L)	HEPTACHLOR, TOTAL IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR EPOXIDE TOTAL (UG/L)	HEPTACHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOTTOM MATERIAL (UG/KG)	MALATHION, TOTAL (UG/L)	METHYL PARATHION, TOTAL (UG/L)	METHYL TRITHION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)
OCT										
11...	.00	.0	.00	.0	.00	.0	.00	.00	.00	--
MAY										
24...	.00	.0	.00	.0	.00	.0	.00	.00	.00	--
SEP										
27...	.00	--	.00	--	.00	--	.00	.00	.00	.00

DATE	PARATHION, TOTAL (UG/L)	TOXAPHENE, TOTAL (UG/L)	TOXAPHENE, TOTAL IN BOTTOM MATERIAL (UG/KG)	TOTAL TRITHION (UG/L)	2,4-D, TOTAL (UG/L)	2,4-D, TOTAL IN BOTTOM MATERIAL (UG/KG)	2,4,5-T TOTAL (UG/L)	2,4,5-T TOTAL IN BOTTOM MATERIAL (UG/KG)	SILVEX, TOTAL (UG/L)	SILVEX, TOTAL IN BOTTOM MATERIAL (UG/KG)
OCT										
11...	.00	0	0	.00	.01	--	.00	--	.00	--
MAY										
24...	.00	0	0	.00	.00	0	.00	0	.00	.0
SEP										
27...	.00	0	--	.00	.00	0	.00	0	.00	.0

DATE	TOTAL DICAMBA (UG/L)	DICAMBA IN BOTTOM MATERIAL (UG/KG)	TOTAL PICLORAM (UG/L)	PICLORAM IN BOTTOM MATERIAL (UG/KG)
MAY				
24...	.00	0	.00	0
MAY				
27...	.00	7.4	.00	0

09216000 BIG SANDY RIVER BELOW EDEN, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	TEMPER- ATURE (DEG C)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM
OCT							
11...	1340	9.0	28	16	1.2	--	--
15...	1340	11.5	28	18	1.4	--	--
NOV							
02...	1115	4.0	25	18	1.2	--	--
DEC							
02...	1245	1.0	A22	89	5.3	--	--
29...	1430	.5	A14	31	1.2	--	--
FEB							
02...	1640	1.0	A15	48	1.9	--	--
MAR							
10...	1115	1.5	A17	47	2.2	--	--
25...	1200	3.0	78	3030	638	22	24
APR							
06...	1420	11.5	50	218	29	--	--
MAY							
01...	1530	14.5	23	148	9.2	--	--
25...	1640	17.5	23	194	12	--	--
JUN							
12...	1215	19.0	23	52	3.2	--	--
12...	1330	21.0	23	47	2.9	--	--
21...	1500	23.0	47	128	16	--	--
JUL							
07...	1510	24.5	54	75	11	--	--
31...	1620	21.0	57	114	18	--	--
SEP							
06...	1425	20.0	73	54	11	--	--

A-Daily mean discharge.

DATE	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM
OCT						
11...	--	--	--	--	--	--
15...	--	--	--	--	--	--
NOV						
02...	--	--	--	--	--	--
DEC						
02...	--	--	--	--	--	--
29...	--	--	--	--	--	--
FEB						
02...	--	--	--	--	--	--
MAR						
10...	--	--	--	--	--	--
25...	24	26	27	50	83	99
APR						
06...	--	--	--	--	--	--
MAY						
01...	--	--	--	--	--	--
25...	--	--	--	--	--	--
JUN						
12...	--	--	--	--	--	--
12...	88	--	--	--	--	--
21...	91	--	--	--	--	--
JUL						
07...	--	--	--	--	--	--
31...	--	--	--	--	--	--
SEP						
06...	--	--	--	--	--	--

09216000 BIG SANDY RIVER BELOW EDEN, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	TEMPER-ATURE (DEG C)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	NUMBER OF SAM-PLING POINTS	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM
MAR 25...	1200	3.0	78	20	7	13	18	43
JUL 31...	1620	21.0	57	10	0	0	2	22
SEP 06...	1425	20.0	73	21	1	3	11	28

DATE	BED MAT. FALL DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM
MAR 25...	57	76	91	97	98	99	100
JUL 31...	48	70	88	96	98	100	--
SEP 06...	36	48	73	92	98	100	--

09216000 BIG SANDY RIVER BELOW EDEN, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 15,77
TIME	1340
TOTAL CELLS/ML	2700
DIVERSITY: DIVISION	1.7
.CLASS	1.7
..ORDER	2.0
...FAMILY	3.3
....GENUS	3.4

ORGANISM	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...OOCYSTACEAE		
....ANKISTRODESMUS	15	1
....DICTYOSPHAERIUM	410#	15
...SCENEDESMACEAE		
....SCENEDESMUS	150	6
..VOLVOCALES		
...CHLAMYDOMONADACEAE		
....CHLAMYDOMONAS	30	1
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...NAVICULACEAE		
....ENTOMONEIS	46	2
..CENTRALES		
...COSCINODISCACEAE		
....CYCLOTELLA	120	5
..PENNALES		
...ACHNANTHACEAE		
....ACHNANTHES	390	15
....RHOICOSPHENIA	15	1
...CYMBELLACEAE		
....AMPHORA	15	1
....CYMBELLA	76	3
...DIATOMACEAE		
....DIATOMA	120	5
...FRAGILARIACEAE		
....SYNEDRA	120	5
...GOMPHONEMATACEAE		
....GOMPHONEMA	30	1
...NAVICULACEAE		
....NAVICULA	30	1
...NITZSCHIACEAE		
....NITZSCHIA	350	13
...SURIRELLACEAE		
....SURIRELLA	15	1
CYANOPHYTA (BLUE-GREEN ALGAE)		
.CYANOPHYCEAE		
..CHROOCOCCALES		
...CHROOCOCCACEAE		
....AGMENELLUM	610#	23
EUGLENOPHYTA (EUGLENOIDS)		
.EUGLENOPHYCEAE		
..EUGLENALES		
...EUGLENACEAE		
....EUGLENA	15	1
....TRACHELOMONAS	91	3
PYRRHOPHYTA (FIRE ALGAE)		
.DINOPHYCEAE		
..GYMNODINIALES		
...GYMNODINIACEAE		
....GYMNODINIUM	15	1

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

09216000 BIG SANDY RIVER BELOW EDEN, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

OCT. 15, 1977
1340 HOURS

IDENTIFICATION OF PERIPHYTON

	ORGANISM NAME	COMMON NAME
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..ULVALES	
	...ULVACEAE	
&	....ENTEROMORPHA	
	..ZYGNEMATALES	
	...DESMIDIACEAE	PLACODERM DESMIDS
	....CLOSTERIUM	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...NAVICULACEAE	NAVICULOID
	....ENTOMONEIS	
	...ACHNANTHACEAE	
&	....ACHNANTHES	
	....COCCONEIS	
	....RHOICOSPHENIA	
	...CYMBELLACEAE	
	....AMPHORA	
	....CYMBELLA	
	....RHOPALODIA	
	...DIATOMACEAE	
	....DIATOMA	
	...FRAGILARIACEAE	
	....FRAGILARIA	
&	....SYNEDRA	
	...GOMPHONEMATACEAE	
&	....GOMPHONEMA	
	...MERIDIONACEAE	
	....MERIDION	
	...NAVICULACEAE	NAVICULOID
	....CALONEIS	
	....GYROSIGMA	
&	....NAVICULA	
	...NITZSCHIACEAE	
	....DENTICULA	
	....NITZSCHIA	
	...SURIRELLACEAE	
	....SURIRELLA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.CYANOPHYCEAE	
	..CHROCCOCCALES	COCCOID BLUE-GREENS
	...CHROCCOCCAEAE	
	....AGMENELLUM	
	..HORMOGONALES	FILAMENTOUS BL-GREEN
	...OSCILLATORIACEAE	
&	....MICROCOLEUS	
	....OSCILLATORIA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

09216000 BIG SANDY RIVER BELOW EDEN, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

BENTHIC INVERTEBRATE ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 15,77
TIME	1340
TOTAL COUNT	88
DIVERSITY: PHYLUM	0.1
.CLASS	0.2
..ORDER	1.1
...FAMILY	1.3
....GENUS	2.7
....GENUS-INSECTA	2.6

ORGANISM	COUNT
ANNELIDA	
.OLIGOCHAETA	
..UNKNOWN ORDER	
...UNKNOWN FAMILY	
....UNKNOWN GENUS #5	1
ARTHROPODA (ARTHROPODS)	
.INSECTA	
..COLEOPTERA	
...ELMIDAE	
....OPTIOSERVUS	2
..DIPTERA	
...CHIRONOMIDAE	
....CRICOTOPUS	38
....ORTHOCLADIUS	14
....PENTANEURA	2
....POLYPEDILUM	2
....RHEOTANYTARSUS	12
....SMITTIA	2
...SIMULIIDAE	
....SIMULIUM	2
..EPHEMEROPTERA	
...EPHEMERELLIDAE	
....EPHEMERELLA	1
..HEMIPTERA	
...CORIXIDAE	
....HESPEROCORIXA	7
..ODONATA	
...GOMPHIDAE	
....OPHIOGOMPHUS	1
..PLECOPTERA	
...CHLOROPERLIDAE	
....ALLOPERLA	2
...PERLIDAE	
....ACRONEURIA	1
.ARACHNIDA	
..HYDRACARINA	
...UNKNOWN FAMILY	
....UNKNOWN GENUS #3	1

09216050 BIG SANDY RIVER AT GASSON BRIDGE, NEAR EDEN, WY

LOCATION.--Lat 41°56'43", long 109°41'04", in NE¼SW¼NW¼ sec.29, T.23 N., R.108 W., Sweetwater County, Hydrologic Unit 14040104, on left bank 0.2 mi (0.3 km) upstream from Gasson Bridge and 14.5 mi (23.3 km) southwest of Eden.

DRAINAGE AREA.--1,720 mi² (4,450 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,350 ft (1,935 m), from topographic map.

REMARKS.--Records good except those for winter period, which are poor. Natural flow of stream affected by storage reservoirs and diversions for irrigation of about 19,300 acres (78.1 km²) above station.

AVERAGE DISCHARGE.--6 years, 70.9 ft³/s (2.008 m³/s), 51,370 acre-ft/yr (63.3 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,130 ft³/s (32.0 m³/s) July 31, 1976, gage height, 8.15 ft (2.484 m); minimum daily, 17 ft³/s (0.48 m³/s) Feb. 23, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 271 ft³/s (7.67 m³/s) Mar. 29, gage height, 5.74 ft (1.749 m); maximum gage height, 6.86 ft (2.091 m) Mar. 8 (backwater from ice); minimum daily discharge, 18 ft³/s (0.51 m³/s) Feb. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	43	25	24	27	26	200	39	39	56	68	80
2	42	44	23	22	28	24	217	37	37	51	65	81
3	42	44	24	21	29	23	200	37	32	52	66	76
4	42	44	26	22	30	23	130	39	39	52	66	78
5	42	42	26	23	31	24	100	44	45	62	66	78
6	45	42	25	24	30	25	74	46	39	65	70	85
7	51	42	24	25	30	26	62	44	37	68	74	85
8	51	42	25	25	29	27	54	51	37	66	78	81
9	48	34	24	24	28	30	51	57	35	66	80	78
10	46	33	23	24	26	34	56	51	35	68	76	81
11	46	35	24	23	27	52	50	50	34	74	70	81
12	48	36	26	24	27	46	42	74	34	73	66	85
13	49	38	27	25	26	39	41	81	35	66	71	89
14	45	37	27	25	24	34	37	65	38	65	85	83
15	44	37	23	24	22	43	39	48	39	65	111	80
16	44	39	20	23	20	28	37	42	42	68	98	76
17	45	37	19	24	19	38	37	46	50	74	94	78
18	46	35	19	23	18	80	35	66	57	71	87	102
19	44	33	20	22	19	80	34	60	62	71	81	115
20	46	31	21	23	21	100	32	89	70	70	74	105
21	51	28	22	24	23	152	31	87	70	68	73	87
22	52	27	23	22	26	157	30	62	58	65	73	76
23	50	27	24	21	24	160	28	46	57	66	74	74
24	48	29	24	19	26	134	26	39	54	66	73	71
25	46	31	23	20	28	109	27	35	51	63	71	68
26	45	31	22	22	29	134	26	41	56	62	68	66
27	43	30	21	23	28	157	31	44	56	58	68	66
28	43	29	22	24	27	207	34	38	62	65	68	66
29	43	28	23	24	---	224	31	39	65	66	71	63
30	43	27	24	25	---	202	38	41	65	68	74	60
31	42	---	25	26	---	190	---	35	---	71	73	---
TOTAL	1414	1055	724	720	722	2628	1830	1573	1430	2021	2332	2394
MEAN	45.6	35.2	23.4	23.2	25.8	84.8	61.0	50.7	47.7	65.2	75.2	79.8
MAX	52	44	27	26	31	224	217	89	70	74	111	115
MIN	42	27	19	19	18	23	26	35	32	51	65	60
AC-FT	2800	2090	1440	1430	1430	5210	3630	3120	2840	4010	4630	4750

CAL YR 1977 TOTAL 15933 MEAN 43.7 MAX 310 MIN 19 AC-FT 31600
WTR YR 1978 TOTAL 18843 MEAN 51.6 MAX 224 MIN 18 AC-FT 37380

09216050 BIG SANDY RIVER AT GASSON BRIDGE, NEAR EDEN, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
OCT											
11...	1150	46	5000	--	5.0	10	--	--	--	--	--
11...	1300	46	3950	--	7.0	--	--	1200	970	240	150
15...	1200	44	3800	8.3	8.5	8	14.4	1300	1000	260	160
NOV											
02...	0930	44	5000	--	1.0	10	--	--	--	--	--
28...	1145	A29	4000	--	.0	--	--	1400	1100	300	160
DEC											
02...	1100	A23	4500	--	.0	7	--	--	--	--	--
19...	1145	A20	4500	--	.0	--	--	1300	1000	270	160
29...	1715	A23	5000	--	.0	12	--	--	--	--	--
JAN											
18...	1300	A23	4900	--	.0	--	--	1500	1200	280	190
FEB											
03...	1535	A29	5800	--	.0	8	--	--	--	--	--
15...	1130	A22	5000	--	.0	--	--	1500	1200	270	190
MAR											
10...	1410	A34	3400	--	2.0	110	--	--	--	--	--
15...	1200	38	5000	--	1.0	--	--	1400	1100	230	190
22...	1350	136	1900	--	4.0	430	--	--	--	--	--
25...	1120	89	2200	8.1	3.0	300	--	680	490	140	79
APR											
06...	1620	70	3500	--	12.0	85	--	--	--	--	--
28...	1245	34	4500	--	14.0	--	--	1300	1000	250	170
MAY											
04...	1415	39	4000	--	11.5	10	--	--	--	--	--
24...	1300	39	4000	8.3	16.0	--	--	910	620	200	100
25...	1820	37	4000	--	16.5	80	--	--	--	--	--
JUN											
05...	1245	46	3900	--	16.5	380	--	--	--	--	--
16...	1200	42	3900	8.4	18.0	--	--	900	680	190	110
JUL											
13...	1530	65	2500	--	23.5	10	--	--	--	--	--
31...	1410	71	2400	--	21.0	--	--	--	--	--	--
AUG											
02...	1030	65	2600	8.0	16.0	--	--	690	480	160	73
30...	1230	78	2900	8.2	17.0	--	--	810	600	180	90
SEP											
06...	1545	87	3500	--	20.0	10	--	--	--	--	--
27...	1215	66	3500	8.2	13.0	--	--	970	750	220	100

A-Daily mean discharge.

09216050 BIG SANDY RIVER AT GASSON BRIDGE, NEAR EDEN, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)
OCT										
11...	--	--	--	--	--	--	--	--	--	--
11...	620	7.7	4.1	280	0	230	2100	56	1.3	11
15...	600	7.2	4.8	320	0	260	2200	59	1.1	10
NOV										
02...	--	--	--	--	--	--	--	--	--	--
28...	620	7.2	3.8	310	0	250	2200	56	1.3	13
DEC										
02...	--	--	--	--	--	--	--	--	--	--
19...	710	8.5	4.1	360	0	300	2500	60	1.3	17
29...	--	--	--	--	--	--	--	--	--	--
JAN										
18...	720	8.1	3.7	370	0	300	2400	54	4.0	22
FEB										
03...	--	--	--	--	--	--	--	--	--	--
15...	730	8.3	4.1	390	0	320	2500	56	2.5	16
MAR										
10...	--	--	--	--	--	--	--	--	--	--
15...	680	8.0	3.1	340	0	280	2300	56	1.2	12
22...	--	--	--	--	--	--	--	--	--	--
25...	360	6.0	3.8	230	0	190	1100	73	--	7.9
APR										
06...	--	--	--	--	--	--	--	--	--	--
28...	730	8.7	4.6	320	0	260	2400	54	4.2	.2
MAY										
04...	--	--	--	--	--	--	--	--	--	--
24...	540	7.8	5.1	350	0	290	1700	110	1.5	7.0
25...	--	--	--	--	--	--	--	--	--	--
JUN										
05...	--	--	--	--	--	--	--	--	--	--
16...	530	7.6	4.6	270	0	220	1700	54	1.9	9.4
JUL										
13...	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--
AUG										
02...	340	5.6	.3	260	0	210	1100	37	1.2	9.2
30...	370	5.6	3.8	260	0	210	1200	44	1.2	10
SEP										
06...	--	--	--	--	--	--	--	--	--	--
27...	460	6.5	3.6	270	0	220	1600	48	1.2	7.8

09216050 BIG SANDY RIVER AT GASSON BRIDGE, NEAR EDEN, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)
OCT										
11...	--	--	--	--	--	--	--	--	--	--
11...	3280	4.46	407	.36	--	--	--	--	--	--
15...	3450	4.69	410	--	.25	.01	.04	.05	.38	.29
NOV										
02...	--	--	--	--	--	--	--	--	--	--
28...	3520	4.79	276	.63	--	--	--	--	--	--
DEC										
02...	--	--	--	--	--	--	--	--	--	--
19...	3860	5.25	208	.86	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
JAN										
18...	3900	5.30	242	.68	--	--	--	--	--	--
FEB										
03...	--	--	--	--	--	--	--	--	--	--
15...	3960	5.39	235	.61	--	--	--	--	--	--
MAR										
10...	--	--	--	--	--	--	--	--	--	--
15...	2930	3.98	301	.45	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
25...	1880	2.56	452	--	.32	--	--	--	--	--
APR										
06...	--	--	--	--	--	--	--	--	--	--
28...	3770	5.13	346	.00	--	--	--	--	--	--
MAY										
04...	--	--	--	--	--	--	--	--	--	--
24...	2800	3.81	295	.27	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
JUN										
05...	--	--	--	--	--	--	--	--	--	--
16...	2730	3.71	310	.00	--	--	--	--	--	--
JUL										
13...	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--
AUG										
02...	1850	2.52	325	.05	--	--	--	--	--	--
30...	2030	2.76	428	.18	--	--	--	--	--	--
SEP										
06...	--	--	--	--	--	--	--	--	--	--
27...	2570	3.50	458	.32	--	--	--	--	--	--

09216050 BIG SANDY RIVER AT GASSON BRIDGE, NEAR EDEN, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
OCT										
11...	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	.01	--	--	--	--	--	--
15...	.39	.06	.33	.03	.00	.00	.00	510	30	30
NOV										
02...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	.00	--	--	--	--	--	--
DEC										
02...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	.01	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
JAN										
18...	--	--	--	.02	--	--	--	--	--	--
FEB										
03...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	.02	--	--	--	--	--	--
MAR										
10...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	.03	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
25...	1.6	.78	.82	.93	--	.01	.03	--	30	--
APR										
06...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	.01	--	--	--	--	--	--
MAY										
04...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	.00	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
JUN										
05...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	.00	--	--	--	--	--	--
JUL										
13...	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--
AUG										
02...	--	--	--	.09	--	--	--	--	--	--
30...	--	--	--	.07	--	--	--	--	--	--
SEP										
06...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	.03	--	--	--	--	--	--

09216050 BIG SANDY RIVER AT GASSON BRIDGE, NEAR EDEN, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	PHYTO-PLANK-TON, TOTAL (CELLS PER ML)	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	IN-VERTE-BRATES, BENTHIC WET WT. (G/SQ METER)	BIOMASS CHLORO-PHYLL RATIO PLANK-TON (UNITS)	BIOMASS CHLORO-PHYLL RATIO PERI-PHYTON (UNITS)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L)	CHLOR-A PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	CHLOR-B PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)
OCT										
11...	--	--	--	--	--	--	--	--	--	--
11...	1500	1260	1570	--	4504	1079	1.11	.162	.445	.030
15...	3500	--	--	.6	--	--	--	--	--	--
NOV										
02...	--	--	--	--	--	--	--	--	--	--
28...	380	--	--	--	--	--	.000	.000	--	--
DEC										
02...	--	--	--	--	--	--	--	--	--	--
19...	130	--	--	--	--	--	.000	.000	--	--
29...	--	--	--	--	--	--	--	--	--	--
JAN										
18...	70	--	--	--	--	--	.000	.000	--	--
FEB										
03...	--	--	--	--	--	--	--	--	--	--
15...	360	--	--	--	5682	--	.880	.000	--	--
MAR										
10...	--	--	--	--	--	--	--	--	--	--
15...	1200	--	--	--	--	--	.000	.000	--	--
22...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
APR										
06...	--	--	--	--	--	--	--	--	--	--
28...	2100	--	--	--	6073	--	2.47	.000	--	--
MAY										
04...	--	--	--	--	--	--	--	--	--	--
24...	490	.472	.787	--	7396	3444	3.38	.000	.160	.000
25...	--	--	--	--	--	--	--	--	--	--
JUN										
05...	--	--	--	--	--	--	--	--	--	--
16...	1500	.394	.551	--	--	--	--	--	--	--
JUL										
13...	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--
AUG										
02...	2900	1.89	2.20	--	5906	2895	2.54	.000	.190	.060
30...	830	.472	.630	--	1253	674	3.99	.000	.350	.170
SEP										
06...	--	--	--	--	--	--	--	--	--	--
27...	1700	.150	1.50	--	4237	.00	1.18	.000	.000	.000

09216050 BIG SANDY RIVER AT GASSON BRIDGE, NEAR EDEN, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	TEMPER-ATURE (DEG C)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM
OCT											
11...	1150	5.0	46	42	5.2	--	--	--	--	--	--
15...	1200	8.5	44	47	5.6	--	--	--	--	--	--
NOV											
02...	0930	1.0	44	107	13	--	--	--	--	--	--
DEC											
02...	1100	.0	A23	38	2.4	--	--	--	--	--	--
29...	1715	.0	A23	120	7.5	--	--	--	--	--	--
FEB											
03...	1535	.0	A29	30	2.3	--	--	--	--	--	--
MAR											
10...	1410	2.0	A34	385	35	--	--	--	--	--	--
22...	1350	4.0	136	904	332	--	72	87	96	99	100
25...	1120	3.0	89	741	178	--	76	96	100	--	--
APR											
06...	1620	12.0	70	248	47	--	--	--	--	--	--
MAY											
04...	1415	11.5	39	130	14	--	--	--	--	--	--
25...	1820	16.5	37	328	33	--	--	--	--	--	--
JUN											
05...	1245	16.5	46	1020	127	--	86	96	100	--	--
12...	1115	--	34	172	16	96	--	--	--	--	--
21...	1300	--	90	234	57	95	--	--	--	--	--
JUL											
13...	1530	23.5	65	132	23	--	--	--	--	--	--
19...	1200	--	71	6	1.2	--	--	--	--	--	--
31...	1410	21.0	71	211	40	--	--	--	--	--	--
SEP											
06...	1545	20.0	87	66	16	--	--	--	--	--	--

A-Daily mean discharge.

DATE	TIME	TEMPER-ATURE (DEG C)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	NUMBER OF SAM-PLING POINTS	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM
MAR							
25...	1120	3.0	89	40	1	3	12
JUL							
31...	1410	21.0	71	21	0	1	8
SEP							
06...	1545	20.0	87	19	--	0	1

DATE	BED MAT. FALL DIAM. % FINER THAN .500 MM	BED MAT. FALL DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM
MAR						
25...	49	83	92	98	100	--
JUL						
31...	45	65	85	96	99	100
SEP						
06...	25	40	72	94	99	100

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO SEPTEMBER 1978

DATE	OCT 11,77	OCT 15,77	NOV 28,77	DEC 19,77	JAN 18,78
TIME	1300	1200	1145	1145	1300
TOTAL CELLS/ML	1500	3500	380	130	70
DIVERSITY: DIVISION	1.0	1.5	0.8	0.3	0.0
.CLASS	1.0	1.5	0.8	0.3	0.0
..ORDER	1.0	2.0	0.8	0.3	0.0
...FAMILY	2.0	2.7	2.7	2.3	2.4
....GENUS	2.6	3.0	2.9	2.3	2.4

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)										
.CHLOROPHYCEAE										
..CHLOROCOCCALES										
...CHARACIACEAE										
....SCHROEDERIA	--	-	--	-	--	-	--	-	--	-
...OOCYSTACEAE										
....ANKISTRODESMUS	85	6	67	2	--	-	--	-	--	-
....CHLORELLA	9	1	--	-	--	-	--	-	--	-
....CHODATELLA	--	-	--	-	--	-	--	-	--	-
....DICTYOSPHAERIUM	830#	56	440	13	--	-	--	-	--	-
....OOCYSTIS	9	1	--	-	--	-	--	-	--	-
....TREUBARIA	--	-	--	-	--	-	--	-	--	-
...SCENEDESMACEAE										
....ACTINASTRUM	--	-	--	-	--	-	--	-	--	-
....CRUCIGENIA	28	2	--	-	--	-	--	-	--	-
....SCENEDESMUS	47	3	22	1	21	5	--	-	--	-
..TETRASPORALES										
...PALMELLACEAE										
....SPHAEROCYSTIS	--	-	--	-	--	-	--	-	--	-
..VOLVOCALES										
...CHLAMYDOMONADACEAE	--	-	--	-	--	-	--	-	--	-
....CHLAMYDOMONAS	--	-	44	1	--	-	7	5	--	-
CHRYSOPHYTA										
.BACILLARIOPHYCEAE										
..PENNALES										
...NAVICULACEAE										
....ENTOMONEIS	9	1	67	2	--	-	--	-	--	-
..CENTRALES										
...COSCINODISCACEAE										
....CYCLOTELLA	9	1	33	1	--	-	--	-	--	-
....MELOSIRA	--	-	--	-	--	-	--	-	--	-
..PENNALES										
...ACHNANTHACEAE										
....ACHNANTHES	47	3	55	2	--	-	--	-	7	10
....COCCONEIS	--	-	--	-	27	7	7	5	--	-
....RHOICOSPHENIA	--	-	--	-	--	-	--	-	--	-
...CYMBELLACEAE										
....AMPHORA	56	4	--	-	--	-	--	-	--	-
....CYMBELLA	9	1	44	1	27	7	7	5	--	-
....EPITHEMIA	--	-	--	-	--	-	--	-	--	-
...DIATOMACEAE										
....DIATOMA	120	8	140	4	7	2	--	-	7	10
...FRAGILARIACEAE										
....FRAGILARIA	--	-	--	-	--	-	--	-	--	-
....SYNEDRA	19	1	33	1	21	5	34#	26	--	-
...GOMPHONEMATACEAE										
....GOMPHONEMA	9	1	160	4	7	2	14	11	7	10
...NAVICULACEAE										
....CALONEIS	--	-	*	0	--	-	--	-	--	-
....NAVICULA	47	3	110	3	55	14	54#	42	21#	30
....PINNULARIA	--	-	--	-	27	7	--	-	--	-
...NITZSCHIACEAE										
....CYLINDROTHECA	75	5	*	0	--	-	--	-	--	-
....DENTICULA	--	-	--	-	--	-	7	5	--	-
....NITZSCHIA	28	2	240	7	140#	36	--	-	21#	30
...SURIRELLACEAE										
....CYMATOPLEURA	--	-	--	-	--	-	--	-	--	-
....SURIRELLA	9	1	22	1	7	2	--	-	7	10
...TABELLARIACEAE										
....TABELLARIA	--	-	--	-	--	-	--	-	--	-
.XANTHOPHYCEAE										
..HETEROCOCCALES										
...CENTRITRACTACEAE										
....CENTRITRACTUS	--	-	--	-	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)										
.CRYPTOPHYCEAE										
..CRYPTOMONADALES										
...CRYPTO,ONADACEAE										
....CRYPTOMONAS	--	-	*	0	--	-	--	-	--	-
...CRYPTOCHRYSIDACEAE										
....RHODOMONAS	19	1	22	1	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

09216050 BIG SANDY RIVER AT GASSON BRIDGE, NEAR EDEN, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO SEPTEMBER 1978

DATE	OCT 11,77		OCT 15,77		NOV 28,77		DEC 19,77		JAN 18,78	
TIME	1300		1200		1145		1145		1300	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CYANOPHYTA (BLUE-GREEN ALGAE)										
.CYANOPHYCEAE										
..CHROOCOCCALES										
...CHROOCOCCACEAE										
....AGMENELLUM	--	-	360	10	--	-	--	-	--	-
....ANACYSTIS	--	-	--	-	48	13	--	-	--	-
..HORMOGONALES										
...OSCILLATORIACEAE										
....LYNGBYA	--	-	--	-	--	-	--	-	--	-
....OSCILLATORIA	--	-	1500#	43	--	-	--	-	--	-
....SPIRULINA	--	-	78	2	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)										
.EUGLENOPHYCEAE										
..EUGLENALES										
...EUGLENACEAE										
....EUGLENA	--	-	--	-	--	-	--	-	--	-
....TRACHELOMONAS	--	-	*	0	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
 * - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO SEPTEMBER 1978

DATE	FEB 15,78		MAR 15,78		APR 28,78		MAY 24,78	
TIME	1130		1200		1245		1300	
TOTAL CELLS/ML	360		1200		2100		490	
DIVERSITY: DIVISION	0.3		1.1		0.4		0.0	
.CLASS	0.3		1.1		0.4		0.0	
..ORDER	0.3		1.2		1.2		0.3	
...FAMILY	2.0		2.4		1.7		2.3	
....GENUS	2.1		2.9		0.0		2.3	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)								
.CHLOROPHYCEAE								
..CHLOROCOCCALES								
...CHARACIACEAE								
....SCHROEDERIA	--	-	--	-	--	-	--	-
...OOCYSTACEAE								
....ANKISTRODESMUS	--	-	--	-	19	1	--	-
....CHLORELLA	--	-	--	-	--	-	--	-
....CHODATELLA	--	-	--	-	--	-	--	-
....DICTYOSPHAERIUM	--	-	--	-	--	-	--	-
....OOCYSTIS	--	-	--	-	--	-	--	-
....TREUBARIA	--	-	--	-	--	-	--	-
...SCENEDESMACEAE								
....ACTINASTRUM	--	-	--	-	--	-	--	-
....CRUCIGENIA	--	-	--	-	--	-	--	-
....SCENEDESMUS	--	-	--	-	38	2	--	-
..TETRASPORALES								
...PALMELLACEAE								
....SPHAEROCYSTIS	--	-	--	-	--	-	--	-
..VOLVOCALES								
...CHLAMYDOMONADACEAE	--	-	--	-	110	5	--	-
....CHLAMYDOMONAS	17	5	--	-	--	-	--	-
CHRYSOPHYTA								
.BACILLARIOPHYCEAE								
..PENNALES								
...NAVICULACEAE								
....ENTOMONEIS	--	-	--	-	--	-	--	-
..CENTRALES								
...COSCINODISCACEAE								
....CYCLOTELLA	--	-	--	-	1500#	71	32	6
....MELOSIRA	--	-	--	-	--	-	--	-
..PENNALES								
...ACHNANTHACEAE								
....ACHNANTHES	--	-	7	1	19	1	--	-
....COCCONEIS	--	-	7	1	--	-	--	-
....RHOICOSPHENIA	--	-	14	1	--	-	16	3
...CYMBELLACEAE								
....AMPHORA	--	-	--	-	--	-	--	-
....CYMBELLA	17	5	42	3	--	-	--	-
....EPITHEMIA	--	-	14	1	--	-	16	3
...DIATOMACEAE								
....DIATOMA	--	-	--	-	19	1	--	-
...FRAGILARIACEAE								
....FRAGILARIA	--	-	--	-	--	-	--	-
....SYNEDRA	120#	33	49	4	19	1	--	-
...GOMPHONEMATACEAE								
....GOMPHONEMA	17	5	77	6	57	3	64	13
...NAVICULACEAE								
....CALONEIS	--	-	--	-	--	-	--	-
....NAVICULA	150#	43	250#	20	130	6	180#	35
....PINNULARIA	--	-	7	1	--	-	--	-
...NITZSCHIACEAE								
....CYLINDROTHECA	--	-	--	-	--	-	--	-
....DENTICULA	--	-	--	-	--	-	--	-
....NITZSCHIA	--	-	56	5	57	3	32	6
...SURIRELLACEAE								
....CYMATOPLEURA	17	5	--	-	--	-	--	-
....SURIRELLA	17	5	14	1	130	6	160#	32
...TABELLARIACEAE								
....TABELLARIA	--	-	42	3	--	-	--	-
.XANTHOPHYCEAE								
..HETEROCOCCALES								
...CENTRITRACTACEAE								
....CENTRITRACTUS	--	-	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)								
.CRYPTOPHYCEAE								
..CRYPTOMONADALES								
...CRYPTO,ONADACEAE								
....CRYPTOMONAS	--	-	--	-	--	-	--	-
...CRYPTOCHRYSIDACEAE								
....RHODOMONAS	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

09216050 BIG SANDY RIVER AT GASSON BRIDGE, NEAR EDEN, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO SEPTEMBER 1978

DATE	FEB 15,78		MAR 15,78		APR 28,78		MAY 24,78	
TIME	1130		1200		1245		1300	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CYANOPHYTA (BLUE-GREEN ALGAE)								
.CYANOPHYCEAE								
..CHROOCOCCALES								
...CHROOCOCCACEAE								
....AGMENELLUM	--	-	--	-	--	-	--	-
....ANACYSTIS	--	-	21	2	--	-	--	-
..HORMOGONALES								
...OSCILLATORIACEAE								
....LYNGBYA	--	-	170	14	--	-	--	-
....OSCILLATORIA	--	-	450#	36	--	-	--	-
....SPIRULINA	--	-	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)								
.EUGLENOPHYCEAE								
..EUGLENALES								
...EUGLENACEAE								
....EUGLENA	--	-	--	-	--	-	--	-
....TRACHELOMONAS	--	-	21	2	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

09216050 BIG SANDY RIVER AT GASSON BRIDGE, NEAR EDEN, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO SEPTEMBER 1978

DATE	JUN 16,78	AUG 2,78	AUG 30,78	SEP 27,78
TIME	1200	1030	1230	1215
TOTAL CELLS/ML	1500	2900	830	1700
DIVERSITY: DIVISION	1.2	1.4	0.9	1.2
.CLASS	1.2	1.5	0.9	1.2
..ORDER	1.6	2.0	1.7	1.2
...FAMILY	3.1	3.1	2.9	2.5
....GENUS	3.1	3.4	3.4	2.6

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
.CHLOROPHYCEAE								
..CHLOROCOCCALES								
...CHARACIACEAE								
....SCHROEDERIA	--	-	--	-	6	1	--	-
...OOCYSTACEAE								
....ANKISTRODESMUS	93	6	110	4	6	1	--	-
....CHLORELLA	--	-	--	-	--	-	--	-
....CHODATELLA	--	-	66	2	--	-	--	-
....DICTYOSPHAERIUM	--	-	--	-	--	-	--	-
....OOCYSTIS	--	-	--	-	--	-	--	-
....TREUBARIA	--	-	22	1	--	-	--	-
...SCENEDESMACEAE								
....ACTINASTRUM	93	6	--	-	--	-	--	-
....CRUCIGENIA	--	-	--	-	--	-	--	-
....SCENEDESMUS	--	-	150	5	25	3	--	-
..TETRASPORALES								
...PALMELLACEAE								
....SPHAEROCYSTIS	160	10	--	-	--	-	--	-
..VOLVOCALES								
...CHLAMYDOMONADACEAE	--	-	--	-	--	-	--	-
....CHLAMYDOMONAS	--	-	22	1	13	2	42	2
CHRYSOPHYTA								
.BACILLARIOPHYCEAE								
..PENNALES								
...NAVICULACEAE								
....ENTOMONEIS	--	-	--	-	--	-	--	-
..CENTRALES								
...COSCINODISCACEAE								
....CYCLOTELLA	46	3	400	14	180#	22	--	-
....MELOSIRA	--	-	--	-	95	11	--	-
..PENNALES								
...ACHNANTHACEAE								
....ACHNANTHES	--	-	200	7	38	5	110	7
....COCCONEIS	--	-	130	5	63	8	28	2
....RHOICOSPHENIA	93	6	150	5	6	1	14	1
...CYMBELLACEAE								
....AMPHORA	--	-	--	-	--	-	--	-
....CYMBELLA	69	4	22	1	19	2	69	4
....EPITHEMIA	--	-	22	1	--	-	--	-
...DIATOMACEAE								
....DIATOMA	93	6	--	-	--	-	--	-
...FRAGILARIACEAE								
....FRAGILARIA	--	-	220	8	--	-	170	10
....SYNEDRA	--	-	--	-	32	4	--	-
...GOMPHONEMATACEAE								
....GOMPHONEMA	93	6	22	1	6	1	55	3
...NAVICULACEAE								
....CALONEIS	--	-	--	-	--	-	--	-
....NAVICULA	120	7	220	8	160#	19	320#	19
....PINNULARIA	--	-	--	-	--	-	--	-
...NITZSCHIACEAE								
....CYLINDROTHECA	--	-	--	-	--	-	--	-
....DENTICULA	--	-	--	-	--	-	--	-
....NITZSCHIA	510#	33	240	8	51	6	110	7
...SURIRELLACEAE								
....CYMATOPLEURA	--	-	--	-	--	-	--	-
....SURIRELLA	--	-	22	1	32	4	28	2
...TABELLARIACEAE								
....TABELLARIA	--	-	--	-	--	-	--	-
.XANTHOPHYCEAE								
..HETEROCOCCALES								
...CENTRITRACTACEAE								
....CENTRITRACTUS	--	-	22	1	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)								
.CRYPTOPHYCEAE								
..CRYPTOMONADALES								
...CRYPTO,ONADACEAE								
....CRYPTOMONAS	--	-	--	-	--	-	--	-
...CRYPTOCHRYSIDACEAE								
....RHODOMONAS	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

09216050 BIG SANDY RIVER AT GASSON BRIDGE, NEAR EDEN, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO SEPTEMBER 1978

DATE	JUN 16,78		AUG 2,78		AUG 30,78		SEP 27,78	
TIME	1200		1030		1230		1215	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CYANOPHYTA (BLUE-GREEN ALGAE)								
.CYANOPHYCEAE								
..CHROOCOCCALES								
...CHROOCOCCACEAE								
....AGMENELLUM	--	-	--	-	--	-	--	-
....ANACYSTIS	190	12	--	-	--	-	--	-
..HORMOGONALES								
...OSCILLATORIACEAE								
....LYNGBYA	--	-	--	-	--	-	--	-
....OSCILLATORIA	--	-	800#	28	95	11	730#	43
....SPIRULINA	--	-	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)								
.EUGLENOPHYCEAE								
..EUGLENALES								
...EUGLENACEAE								
....EUGLENA	--	-	--	-	6	1	--	-
....TRACHELOMONAS	--	-	22	1	--	-	14	1

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

09216050 BIG SANDY RIVER AT GASSON BRIDGE, NEAR EDEN, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

OCT. 11, 1977
1300 HOURS

PERIPHYTON IDENTIFICATION

_ORGANISM__NAME	_COMMON__NAME
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...NAVICULACEAE	NAVICULOID
....ENTOMONEIS	
...ACHNANTHACEAE	
....ACHNANTHES	
....COCCONEIS	
....RHOICOSPHENIA	
...CYMBELLACEAE	
....CYMBELLA	
...DIATOMACEAE	
& ....DIATOMA	
...FRAGILARIACEAE	
....SYNEDRA	
...GOMPHONEMATACEAE	
....GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
....GYROSIGMA	
....NAVICULA	
....PINNULARIA	
...NITZSCHIACEAE	
....DENTICULA	
....NITZSCHIA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
SAMPLING METHOD: PLASTIC SLIDES, TIMED SAMPLING INTERVAL
ANALYSIS METHOD: GLASS CHAMBER(12MM CIRC), 200-X MICROSCOPE

OCT. 15, 1977
1200 HOURS

IDENTIFICATION OF PERIPHYTON

_ORGANISM__NAME	_COMMON__NAME
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..ULVALES	
...ULVACEAE	
& ....ENTEROMORPHA	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...NAVICULACEAE	NAVICULOID
....ENTOMONEIS	
...ACHNANTHACEAE	
& ....RHOICOSPHENIA	
...CYMBELLACEAE	
....AMPHORA	
....CYMBELLA	
....RHOPALODIA	
...DIATOMACEAE	
& ....DIATOMA	
...FRAGILARIACEAE	
& ....SYNEDRA	
...GOMPHONEMATACEAE	
....GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
....ANOMOEONEIS	
....CALONEIS	
....GYROSIGMA	
....MASTOGLOIA	
....NAVICULA	
....PINNULARIA	
...NITZSCHIACEAE	
....CYLINDROTHECA	
....DENTICULA	
....HANTZSCHIA	
....NITZSCHIA	
...SURIRELLACEAE	
....SURIRELLA	
CYANOPHYTA	BLUE-GREEN ALGAE
.CYANOPHYCEAE	
..CHROCCOCCALES	COCCOID BLUE-GREENS
...CHROCCOCCACEAE	
....AGMENELLUM	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

09216050 BIG SANDY RIVER AT GASSON BRIDGE, NEAR EDEN, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

MAY 24, 1978
1300 HOURS

PERIPHYTON IDENTIFICATION

_ORGANISM__NAME_______________	_COMMON__NAME_______
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..OEDOGONIALES	
...OEDOGONIACEAE	
& ....OEDOGONIUM	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...ACHNANTHACEAE	
....ACHNANTHES	
...GOMPHONEMATACEAE	
& ....GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
& ....NAVICULA	
...NITZSCHIACEAE	
....HANTZSCHIA	
...SURIRELLACEAE	
....SURIRELLA	
EUGLENOPHYTA	EUGLENOIDS
.EUGLENOPHYCEAE	
..EUGLENALES	
...EUGLENACEAE	
....TRACHELOMONAS	

JUNE 16, 1978
1200 HOURS

IDENTIFICATION OF PERIPHYTON

_ORGANISM__NAME_______________	_COMMON__NAME_______
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...ACHNANTHACEAE	
& ....ACHNANTHES	
& ....RHOICOSPHENIA	
...CYMBELLACEAE	
& ....CYMBELLA	
& ....RHOPALODIA	

AUG. 2, 1978
1030 HOURS

IDENTIFICATION OF PERIPHYTON

_ORGANISM__NAME_______________	_COMMON__NAME_______
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...ACHNANTHACEAE	
& ....COCCONEIS	
...DIATOMACEAE	
& ....DIATOMA	
...FRAGILARIACEAE	
& ....SYNEDRA	
...NAVICULACEAE	NAVICULOID
& ....NEIDIUM	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
SAMPLING METHOD: PLASTIC SLIDES, TIMED SAMPLING INTERVAL
ANALYSIS METHOD: GLASS CHAMBER(12MM CIRC), 200-X MICROSCOPE

09216050 BIG SANDY RIVER AT GASSON BRIDGE, NEAR EDEN, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

AUG. 30, 1978
1230 HOURS

PERIPHYTON IDENTIFICATION

_ORGANISM__NAME_______________	_COMMON__NAME______
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..ULOTRICHALES	
...CHAETOPHORACEAE	
....PSEUDOULVELLA	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...ACHNANTHACEAE	
& ....COCCONEIS	
...CYMBELLACEAE	
....CYMBELLA	
...GOMPHONEMATACEAE	
& ....GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
& ....NAVICULA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
SAMPLING METHOD: PLASTIC SLIDES, TIMED SAMPLING INTERVAL
ANALYSIS METHOD: GLASS CHAMBER(12MM CIRC), INVERTED MICROSCOPE

SEP. 27, 1978
1215 HOURS

PERIPHYTON IDENTIFICATION

_ORGANISM__NAME_______________	_COMMON__NAME______
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...ACHNANTHACEAE	
& ....COCCONEIS	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
SAMPLING METHOD: PLASTIC SLIDES, TIMED SAMPLING INTERVAL
ANALYSIS METHOD: GLASS CHAMBER(12MM CIRC), 200-X MICROSCOPE

BENTHIC INVERTEBRATE ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 15,77
TIME	1200
TOTAL COUNT	17
DIVERSITY: PHYLUM	0.0
.CLASS	0.3
..ORDER	1.5
...FAMILY	1.5
....GENUS	1.7
....GENUS-INSECTA	1.5

ORGANISM	COUNT
ARTHROPODA (ARTHROPODS)	
.INSECTA	
..DIPTERA	
...CHIRONOMIDAE	
....CRICOTOPUS	5
....PENTANEURA	1
..EPHEMEROPTERA	
...HEPTAGENIIDAE	
....UNKNOWN GENUS	1
..HEMIPTERA	
...CORIXIDAE	
....HESPEROCORIXA	9
.ARACHNIDA	
..HYDRACARINA	
...UNKNOWN FAMILY	
....UNKNOWN GENUS #3	1

09216300 GREEN RIVER AT BIG ISLAND, NEAR GREEN RIVER, WY

LOCATION.--Lat 41°45'52", long 109°44'05", in SW¼SE¼ sec.26, T.21 N., R.109 W., Sweetwater County, Hydrologic Unit 14040103, at Big Island bridge, 6.3 mi (10.1 km) downstream from Dry Creek, 9.5 mi (15.3 km) downstream from Big Sandy River, and 21 mi (34 km) northwest of town of Green River.

DRAINAGE AREA.--7,300 mi^2 (18,900 km^2), approximately.

PERIOD OF RECORD.--Water years 1966 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)
OCT												
11...	1500	740	--	10.5	260	110	62	26	79	2.1	2.1	180
19...	1706	--	--	11.5	260	110	60	27	76	2.0	2.1	170
NOV												
28...	1000	780	--	1.0	270	110	63	27	86	2.3	2.0	190
DEC												
19...	1300	700	--	.0	250	94	81	12	70	1.9	2.2	190
JAN												
18...	1430	510	--	2.0	220	72	56	19	45	1.3	1.7	180
FEB												
15...	1400	580	--	.0	220	72	51	23	45	1.3	1.8	180
MAR												
15...	1430	590	--	2.0	210	62	55	18	41	1.2	1.1	180
APR												
28...	1430	610	--	10.5	220	74	51	22	56	1.7	2.0	160
MAY												
24...	1500	540	8.1	12.0	200	77	53	17	34	1.0	1.5	150
JUN												
16...	1400	440	8.4	17.0	150	19	41	13	16	.6	1.9	150
AUG												
02...	1210	400	7.9	17.5	130	15	34	12	18	.7	.2	140
30...	1415	440	8.6	20.0	160	37	40	14	30	1.0	1.4	150
SEP												
27...	1345	900	8.9	19.0	250	140	59	25	92	2.5	1.7	140

DATE	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)
OCT												
11...	0	150	240	13	.4	2.7	515	.70	.02	--	--	--
19...	4	150	250	9.5	.3	2.5	515	.70	--	.00	.03	.00
NOV												
28...	0	160	270	13	.4	2.9	561	.76	.05	--	--	--
DEC												
19...	0	160	230	9.6	.3	7.2	507	.69	.27	--	--	--
JAN												
18...	0	150	150	8.3	.4	8.2	378	.51	.09	--	--	--
FEB												
15...	0	150	140	8.9	.4	6.3	370	.50	.02	--	--	--
MAR												
15...	0	150	140	6.7	.3	9.8	363	.49	.07	--	--	--
APR												
28...	9	150	170	6.8	1.2	.1	397	.54	.00	--	--	--
MAY												
24...	0	120	140	5.1	.3	2.8	404	.55	.07	--	--	--
JUN												
16...	5	130	46	3.0	.3	5.4	206	.28	.02	--	--	--
AUG												
02...	0	120	56	3.7	.2	2.9	191	.26	.02	--	--	--
30...	0	120	88	3.7	.3	2.8	255	.35	.45	--	--	--
SEP												
27...	0	120	310	11	.4	.0	568	.77	.02	--	--	--

09216300 GREEN RIVER AT BIG ISLAND, NEAR GREEN RIVER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)
OCT												
11...	--	--	--	--	--	--	.01	--	--	--	--	--
19...	.00	.22	.30	.25	.00	.30	.02	.00	.00	.00	80	20
NOV												
28...	--	--	--	--	--	--	.00	--	--	--	--	--
DEC												
19...	--	--	--	--	--	--	.00	--	--	--	--	--
JAN												
18...	--	--	--	--	--	--	.00	--	--	--	--	--
FEB												
15...	--	--	--	--	--	--	.03	--	--	--	--	--
MAR												
15...	--	--	--	--	--	--	.02	--	--	--	--	--
APR												
28...	--	--	--	--	--	--	.00	--	--	--	--	--
MAY												
24...	--	--	--	--	--	--	.07	--	--	--	--	--
JUN												
16...	--	--	--	--	--	--	.02	--	--	--	--	--
AUG												
02...	--	--	--	--	--	--	.06	--	--	--	--	--
30...	--	--	--	--	--	--	.02	--	--	--	--	--
SEP												
27...	--	--	--	--	--	--	.01	--	--	--	--	--

DATE	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	PHYTO-PLANK-TON, TOTAL (CELLS PER ML)	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	BIOMASS CHLORO-PHYLL RATIO PLANK-TON (UNITS)	BIOMASS CHLORO-PHYLL RATIO PERI-PHYTON (UNITS)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L)	CHLOR-A PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	CHLOR-B PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	SEDI-MENT, SUS-PENDED (MG/L)
OCT											
11...	--	1400	3.54	3.78	8605	1864	.581	.062	.295	.012	18
19...	8	--	--	--	--	--	--	--	--	--	--
NOV											
28...	--	--	--	--	--	--	.000	.000	--	--	16
DEC											
19...	--	440	--	--	--	--	.000	.000	--	--	32
JAN											
18...	--	850	--	--	--	--	.000	.000	--	--	16
FEB											
15...	--	1500	--	--	.00	--	3.50	.000	--	--	56
MAR											
15...	--	530	--	--		--	.000	.000	--	--	10
APR											
28...	--	1600	--	--	3497	--	2.86	.000	--	--	36
MAY											
24...	--	780	--	--		1205	.000	.000	.390	.000	46
JUN											
16...	--	670	--	--	--	--	--	--	--	--	41
AUG											
02...	--	2000	--	--	6881	--	2.18	.000	--	--	10
30...	--	440	1.26	2.20	--	--	.000	.000	1.50	.390	8
SEP											
27...	--	520	--	--	.00	--	.000	.000	--	--	8

09216300 GREEN RIVER AT BIG ISLAND, NEAR GREEN RIVER, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

PHYTOPLANKTUN ANALYSES, OCTUBER 1977 TO SEPTEMBER 1978

DATE	OCT 11,77	DEC 19,77	JAN 18,78	FEB 15,78	MAR 15,78	APR 28,78
TIME	1500	1300	1430	1400	1430	1430
TOTAL CELLS/ML	1400	440	850	1500	530	1600
DIVERSITY: DIVISION	1.7	0.9	0.2	0.0	0.0	0.4
.CLASS	1.7	0.9	0.2	0.0	0.0	0.4
..ORDER	2.2	1.7	0.4	0.3	0.3	1.4
...FAMILY	3.5	2.8	2.7	1.2	2.7	2.6
....GENUS	3.8	3.1	2.9	1.2	2.7	0.0

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)												
.CHLOROPHYCEAE												
..CHLOROCOCCALES												
...CHARACIACEAE												
....CHARACIUM	--	-	--	-	--	-	--	-	--	-	--	-
....SCHRUEDERIA	15	1	--	-	--	-	--	-	--	-	--	-
...OOCYSTACEAE												
....ANKISTRODESMUS	--	-	--	-	--	-	--	-	--	-	39	2
....CHLORELLA	15	1	--	-	--	-	--	-	--	-	--	-
....DICTYOSPHAERIUM	29	2	--	-	--	-	--	-	--	-	--	-
....SELENASTRUM	--	-	--	-	--	-	--	-	--	-	--	-
...SCENEDESMACEAE												
....SCENEDESMUS	37	3	--	-	24	3	--	-	--	-	39	2
..VOLVOCALES												
...CHLAMYDOMONADACEAE	--	-	--	-	--	-	--	-	--	-	58	4
....CHLAMYDOMONAS	--	-	42	10	--	-	--	-	--	-	--	-
..ZYGNEMATALES												
...ZYGNEMATACEAE												
....MOUGEOTIA	7	1	--	-	--	-	--	-	--	-	--	-
CHRYSOPHYTA												
.BACILLARIOPHYCEAE												
..CENTRALES												
...COSCINODISCACEAE												
....CYCLOTELLA	22	2	130#	30	30	3	15	1	33	6	540#	33
....MELOSIRA	--	-	--	-	--	-	--	-	--	-	--	-
....STEPHANODISCUS	7	1	12	3	--	-	75	5	--	-	58	4
..PENNALES												
...ACHNANTHACEAE												
....ACHNANTHES	37	3	--	-	53	6	--	-	13	2	150	9
....COCCONEIS	29	2	12	3	18	2	75	5	--	-	--	-
....RHOICOSPHENIA	--	-	--	-	--	-	--	-	--	-	--	-
...CYMBELLACEAE												
....AMPHORA	22	2	--	-	--	-	--	-	--	-	--	-
....CYMBELLA	15	1	24	5	53	6	120	8	73	14	58	4
....EPITHEMIA	--	-	12	3	--	-	--	-	--	-	--	-
...DIATOMACEAE												
....DIATOMA	15	1	61	14	200#	24	*	0	--	-	430#	26
...EUNOTIACEAE												
....EUNOTIA	7	1	--	-	--	-	--	-	--	-	--	-
...FRAGILARIACEAE												
....ASTERIONELLA	37	3	--	-	--	-	--	-	--	-	39	2
....FRAGILARIA	88	6	18	4	230#	26	--	-	--	-	--	-
....SYNEDRA	44	3	55	12	24	3	1200#	78	190#	35	120	7
...GOMPHONEMATACEAE												
....GOMPHONEMA	7	1	--	-	12	1	--	-	26	5	--	-
...NAVICULACEAE												
....CALONEIS	--	-	--	-	--	-	--	-	--	-	19	1
....NAVICULA	66	5	18	4	65	8	--	-	86#	16	58	4
...NITZSCHIACEAE												
....CYLINDROTHECA	7	1	--	-	--	-	--	-	--	-	--	-
....NITZSCHIA	74	5	--	-	150#	17	45	3	26	5	39	2
...SURIRELLACEAE												
....SURIRELLA	--	-	18	4	--	-	--	-	7	1	--	-
...TABELLARIACEAE												
....TABELLARIA	--	-	--	-	--	-	--	-	79	15	--	-
.CHRYSOPHYCEAE												
..CHRYSOMONADALES												
...OCHROMONADACEAE												
....DINOBRYON	--	-	--	-	--	-	--	-	--	-	--	-

09216300 GREEN RIVER AT BIG ISLAND, NEAR GREEN RIVER, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO SEPTEMBER 1978

DATE	OCT 11,77	DEC 19,77	JAN 18,78	FEB 15,78	MAR 15,78	APR 28,78
TIME	1500	1300	1430	1400	1430	1430
TOTAL CELLS/ML	1400	440	850	1500	530	1600
DIVERSITY: DIVISION	1.7	0.9	0.2	0.0	0.0	0.4
.CLASS	1.7	0.9	0.2	0.0	0.0	0.4
..ORDER	2.2	1.7	0.4	0.3	0.3	1.4
...FAMILY	3.5	2.8	2.7	1.2	2.7	2.6
....GENUS	3.8	3.1	2.9	1.2	2.7	0.0

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CRYPTOPHYTA (CRYPTOMONADS)												
.CRYPTOPHYCEAE												
..CRYPTOMONADALES												
...CRYPTO,ONADACEAE												
....CRYPTOMONAS	29	2	--	-	--	-	--	-	--	-	--	-
...CRYPTOCHRYSIDACEAE												
....RHODOMONAS	180	13	--	-	--	-	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)												
.CYANOPHYCEAE												
..CHROOCOCCALES												
...CHROOCOCCACEAE												
....ANACYSTIS	--	-	--	-	--	-	--	-	--	-	--	-
..HORMOGONALES												
...NOSTOCACEAE												
....ANABAENA	--	-	--	-	--	-	--	-	--	-	--	-
....APHANIZOMENON	340#	24	--	-	--	-	--	-	--	-	--	-
...OSCILLATORIACEAE												
....LYNGBYA	--	-	--	-	--	-	--	-	--	-	--	-
....OSCILLATORIA	--	-	36	8	--	-	--	-	--	-	--	-
..CHROOCOCCALES												
...CHROOCOCCACEAE												
....KYRKIA	180	12	--	-	--	-	--	-	--	-	--	-
..HORMOGONALES												
...OSCILLATORIACEAE												
....PORPHYROSIPHON	120	9	--	-	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
 * - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

09216300 GREEN RIVER AT BIG ISLAND, NEAR GREEN RIVER, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO SEPTEMBER 1978

DATE	MAY 24,78	JUN 16,78	AUG 2,78	AUG 30,78	SEP 27,78
TIME	1500	1400	1210	1415	1345
TOTAL CELLS/ML	780	670	2000	440	520
DIVERSITY: DIVISION	0.9	0.2	0.8	1.1	0.7
.CLASS	1.1	0.2	0.8	1.1	0.7
..ORDER	1.3	0.8	1.4	1.5	0.9
...FAMILY	1.8	2.3	1.8	1.7	2.3
....GENUS	2.0	2.3	2.1	1.7	2.3

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)										
.CHLOROPHYCEAE										
..CHLOROCOCCALES										
...CHARACIACEAE										
....CHARACIUM	--	-	--	-	14	1	--	-	--	-
....SCHROEDERIA	--	-	--	-	--	-	--	-	--	-
...OOCYSTACEAE										
....ANKISTRODESMUS	--	-	23	3	--	-	--	-	--	-
....CHLORELLA	--	-	--	-	--	-	--	-	--	-
....DICTYOSPHAERIUM	--	-	--	-	--	-	--	-	--	-
....SELENASTRUM	--	-	--	-	--	-	--	-	14	3
...SCENEDESMACEAE										
....SCENEDESMUS	--	-	--	-	--	-	21	5	--	-
..VOLVOCALES										
...CHLAMYDOMONADACEAE	--	-	--	-	--	-	--	-	--	-
....CHLAMYDOMONAS	--	-	--	-	--	-	--	-	--	-
..ZYGNEMATALES										
...ZYGNEMATACEAE										
....MOUGEOTIA	--	-	--	-	--	-	--	-	--	-
CHRYSOPHYTA										
.BACILLARIOPHYCEAE										
..CENTRALES										
...COSCINODISCACEAE										
....CYCLOTELLA	48	6	93	14	--	-	--	-	14	3
....MELOSIRA	--	-	--	-	980#	50	240#	56	--	-
....STEPHANODISCUS	--	-	--	-	160	8	--	-	--	-
..PENNALES										
...ACHNANTHACEAE										
....ACHNANTHES	--	-	--	-	--	-	7	2	--	-
....COCCONEIS	--	-	--	-	160	8	--	-	14	3
....RHOICOSPHENIA	16	2	--	-	--	-	--	-	--	-
...CYMBELLACEAE										
....AMPHORA	16	2	--	-	--	-	--	-	--	-
....CYMBELLA	80	10	140#	21	86	4	7	2	--	-
....EPITHEMIA	16	2	--	-	--	-	--	-	260#	50
...DIATOMACEAE										
....DIATOMA	16	2	190#	28	58	3	--	-	29	6
...EUNOTIACEAE										
....EUNOTIA	--	-	--	-	--	-	--	-	--	-
...FRAGILARIACEAE										
....ASTERIONELLA	--	-	--	-	--	-	--	-	--	-
....FRAGILARIA	--	-	190#	28	--	-	--	-	--	-
....SYNEDRA	--	-	--	-	--	-	--	-	14	3
...GOMPHONEMATACEAE										
....GOMPHONEMA	--	-	--	-	--	-	14	3	--	-
...NAVICULACEAE										
....CALONEIS	--	-	--	-	--	-	--	-	--	-
....NAVICULA	32	4	46	7	29	1	--	-	29	6
...NITZSCHIACEAE										
....CYLINDROTHECA	--	-	--	-	--	-	--	-	--	-
....NITZSCHIA	48	6	--	-	14	1	18	4	86#	17
...SURIRELLACEAE										
....SURIRELLA	--	-	--	-	--	-	--	-	--	-
...TABELLARIACEAE										
....TABELLARIA	--	-	--	-	--	-	--	-	--	-
.CHRYSOPHYCEAE										
..CHRYSOMONADALES										
...OCHROMONADACEAE										
....DINOBRYON	16	2	--	-	--	-	--	-	--	-

09216300 GREEN RIVER AT BIG ISLAND, NEAR GREEN RIVER, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO SEPTEMBER 1978

DATE	MAY 24,78		JUN 16,78		AUG 2,78		AUG 30,78		SEP 27,78	
TIME	1500		1400		1210		1415		1345	
TOTAL CELLS/ML	780		670		2000		440		520	
DIVERSITY: DIVISION	0.9		0.2		0.8		1.1		0.7	
.CLASS	1.1		0.2		0.8		1.1		0.7	
..ORDER	1.3		0.8		1.4		1.5		0.9	
...FAMILY	1.8		2.3		1.8		1.7		2.3	
....GENUS	2.0		2.3		2.1		1.7		2.3	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CRYPTOPHYTA (CRYPTOMONADS)										
.CRYPTOPHYCEAE										
..CRYPTOMONADALES										
...CRYPTO,ONADACEAE										
....CRYPTOMONAS	--	-	--	-	--	-	--	-	--	-
...CRYPTOCHRYSIDACEAE										
....RHODOMONAS	--	-	--	-	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)										
.CYANOPHYCEAE										
..CHROOCOCCALES										
...CHROOCOCCACEAE										
....ANACYSTIS	--	-	--	-	--	-	--	-	57	11
..HORMOGONALES										
...NOSTUCACEAE										
....ANABAENA	--	-	--	-	460#	24	--	-	--	-
....APHANIZOMENON	--	-	--	-	--	-	--	-	--	-
...OSCILLATORIACEAE										
....LYNGBYA	490#	63	--	-	--	-	--	-	--	-
....OSCILLATORIA	--	-	--	-	--	-	130#	29	--	-
..CHROOCOCCALES										
...CHROOCUCCACEAE										
....KYRKIA	--	-	--	-	--	-	--	-	--	-
..HORMOGONALES										
...OSCILLATURIACEAE										
....PORPHYROSIPHON	--	-	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

09216300 GREEN RIVER AT BIG ISLAND, NEAR GREEN RIVER, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

OCT. 11, 1977
1500 HOURS

IDENTIFICATION OF PERIPHYTON

	ORGANISM NAME	COMMON NAME
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..CHLOROCOCCALES	
	...SCENEDESMACEAE	
	....SCENEDESMUS	
	..OEDOGONIALES	
	...OEDOGONIACEAE	
	....BULBOCHAETE	
&	....OEDOGONIUM	
	..ULOTRICHALES	
	...CHAETOPHORACEAE	
&	....STIGEOCLONIUM	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
	....COCCONEIS	
	...CYMBELLACEAE	
	....CYMBELLA	
	....RHOPALODIA	
	...DIATOMACEAE	
	....DIATOMA	
	...FRAGILARIACEAE	
&	....FRAGILARIA	
	....SYNEDRA	
	...NAVICULACEAE	NAVICULOID
	....CALONEIS	
	....GYROSIGMA	
&	....NAVICULA	
	....PINNULARIA	
	...NITZSCHIACEAE	
&	....NITZSCHIA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.CYANOPHYCEAE	
	..HORMOGONALES	FILAMENTOUS BL-GREEN
	...NOSTOCACEAE	
	...OSCILLATORIACEAE	
&	....LYNGBYA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
SAMPLING METHOD: PLASTIC SLIDES, TIMED SAMPLING INTERVAL
ANALYSIS METHOD: GLASS CHAMBER(12MM CIRC), 200-X MICROSCOPE

09216300 GREEN RIVER AT BIG ISLAND, NEAR GREEN RIVER, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

MAY 24, 1978
1500 HOURS

PERIPHYTON IDENTIFICATION

	ORGANISM NAME	COMMON NAME
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..VOLVOCALES	
	...CHLAMYDOMONADACEAE	
	....CHLAMYDOMONAS	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...CYMBELLACEAE	
	....AMPHORA	
	....CYMBELLA	
	...FRAGILARIACEAE	
&	....FRAGILARIA	
	...NAVICULACEAE	NAVICULOID
	....NAVICULA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.CYANOPHYCEAE	
	..HORMOGONALES	FILAMENTOUS BL-GREEN
	...OSCILLATORIACEAE	
&	....OSCILLATORIA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
SAMPLING METHOD: PLASTIC SLIDES, TIMED SAMPLING INTERVAL
ANALYSIS METHOD: GLASS CHAMBER(12MM CIRC), 200-X MICROSCOPE

AUG. 30, 1978
1415 HOURS

PERIPHYTON IDENTIFICATION

	ORGANISM NAME	COMMON NAME
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..OEDOGONIALES	
	...OEDOGONIACEAE	
	....BULBOCHAETE	
	....OEDOGONIUM	
	..ULOTRICHALES	
	...CHAETOPHORACEAE	
&	....STIGEOCLONIUM	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
&	....COCCONEIS	
	...CYMBELLACEAE	
&	....EPITHEMIA	
	...GOMPHONEMATACEAE	
	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
	....NAVICULA	
	...NITZSCHIACEAE	
	....NITZSCHIA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: GLASS CHAMBER(12MM CIRC), INVERTED MICROSCOPE

09216527 SEPARATION CREEK NEAR RINER, WY

LOCATION.--Lat 41°39'38", long 107°33'28", in NE¼SE¼SW¼ sec 32, T.20 N., R.90 W., Sweetwater County, Hydrologic Unit 14040200, on left bank 0.1 mi (0.2 km) downstream from unnamed tributary, 1.5 mi (2.4 km) upstream from wooden bridge, 5.0 mi (8.0 km) south of Riner, and 6.5 mi (10.5 km) south of Interstate Highway 80.

DRAINAGE AREA.--55.3 mi² (143.2 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1975 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,810 ft (2,076 m), from topographic map.

REMARKS.--Records poor. No diversion above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 81 ft³/s (2.29 m³/s) July 23, 1977, gage height, 5.43 ft (1.655 m); no flow for many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 18 ft³/s (0.51 m³/s) Mar. 31, gage height, 4.03 ft (1.228 m); maximum gage height, 4.65 ft (1.417 m) Mar. 19 (backwater from snowdrifts); no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	11	1.8	6.1	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	13	1.7	4.8	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	11	2.0	4.4	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	6.2	2.7	5.6	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	5.4	2.4	7.5	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	3.8	2.7	7.7	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	4.3	3.0	6.4	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	5.5	3.4	4.7	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	4.2	2.6	3.8	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	2.4	2.0	3.2	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	1.8	2.1	2.4	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	1.4	2.1	2.1	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	1.6	2.3	1.8	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	1.3	2.0	1.5	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	1.8	1.8	.94	.00	.00	.00
16	.00	.00	.00	.00	.00	.00	2.4	2.0	.73	.00	.00	.00
17	.00	.00	.00	.00	.00	.05	1.6	3.8	.58	.00	.00	.00
18	.00	.00	.00	.00	.00	.50	1.4	7.3	.37	.00	.00	.00
19	.00	.00	.00	.00	.00	5.0	.97	12	.33	.00	.00	.00
20	.00	.00	.00	.00	.00	3.0	.79	9.6	.14	.00	.00	.00
21	.00	.00	.00	.00	.00	1.5	.88	7.2	.05	.00	.00	.00
22	.00	.00	.00	.00	.00	.85	.79	6.0	.02	.00	.00	.00
23	.00	.00	.00	.00	.00	1.0	.50	5.8	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.88	.45	6.0	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.48	.48	6.4	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.52	.52	6.1	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.79	.62	6.3	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.85	.82	6.1	.00	.00	.00	.00
29	.00	.00	.00	.00	---	.68	.91	5.8	.00	.00	.00	.00
30	.00	.00	.00	.00	---	1.5	1.1	6.0	.00	.00	.00	.00
31	.00	---	.00	.00	---	11	---	6.2	---	.00	.00	---
TOTAL	.00	.00	.00	.00	.00	28.60	88.93	137.2	65.16	.00	.00	.00
MEAN	.000	.000	.000	.000	.000	.92	2.96	4.43	2.17	.000	.000	.000
MAX	.00	.00	.00	.00	.00	11	13	12	7.7	.00	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.45	1.7	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	57	176	272	129	.00	.00	.00

CAL YR 1977 TOTAL 95.87 MEAN .26 MAX 12 MIN .00 AC-FT 190
WTR YR 1978 TOTAL 319.89 MEAN .88 MAX 13 MIN .00 AC-FT 635

09216527 SEPARATION CREEK NEAR RINER, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1976 to current year.

PERIOD OF DAILY RECORD.--
SUSPENDED SEDIMENT DISCHARGE: October 1975 to current year.

INSTRUMENTATION.--Automatic pumping sediment sampler since April 1976.

REMARKS.--No flow observed Oct. 26, Nov. 15, Dec. 14, Jan. 18, Mar. 3, 10, July 10, 26, Aug. 3, 16, Sept. 25.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 27,800 mg/L Aug. 25, 1977; minimum daily mean, no flow for many days each year.
SEDIMENT LOADS: Maximum daily, 98 tons (89 tonnes) Aug. 25, 1977; minimum daily, 0 tons on many days each year.

EXTREMES FOR CURRENT YEAR.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 1,570 mg/L Apr. 2; minimum daily mean, no flow for many days.
SEDIMENT LOADS: Maximum daily, 55 tons (50 tonnes) Apr. 2; minimum daily, 0 tons on many days.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	OXYGEN, DISSOLVED (MG/L)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)
APR 27...	1310	.62	1700	7.8	8.0	20	9.2	2.2	790	480	120
MAY 22...	1430	5.9	850	8.2	15.0	200	8.0	4.2	380	170	70

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)
APR 27...	120	140	2.2	6.3	380	0	310	730	20	.5	6.4
MAY 22...	50	60	1.3	5.3	260	0	210	260	8.0	.3	8.1

DATE	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)
APR 27...	1330	1.81	2.23	.09	.08	.70	.78	.87	3.9	.04
MAY 22...	590	.80	9.40	.22	.17	1.4	1.6	1.8	8.1	.37

09216527 SEPARATION CREEK NEAR RINER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)
APR 27...	1310	570	0	1	1	0	0	170	4	3	0
MAY 22...	1430	11000	--	3	--	0	--	170	4	--	15

DATE	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)
APR 27...	0	5	3	690	580	16	5	80	90	40	20
MAY 22...	--	23	--	9400	130	15	--	40	--	260	--

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)
APR 27...	.0	.0	6	0	6	0	0	0	.0	20	10
MAY 22...	.0	--	4	--	13	--	0	--	--	80	--

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM	BED MAT. FALL DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM
MAR 28...	1400	.48	99	100	--	--	--	--	--	--
MAY 12...	1215	2.0	93	95	96	97	97	98	99	100

09216527 SEPARATION CREEK NEAR RINER, WY--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		OCTOBER			NOVEMBER			DECEMBER	
1	.00	0	.00	.00	0	.00	.00	0	.00
2	.00	0	.00	.00	0	.00	.00	0	.00
3	.00	0	.00	.00	0	.00	.00	0	.00
4	.00	0	.00	.00	0	.00	.00	0	.00
5	.00	0	.00	.00	0	.00	.00	0	.00
6	.00	0	.00	.00	0	.00	.00	0	.00
7	.00	0	.00	.00	0	.00	.00	0	.00
8	.00	0	.00	.00	0	.00	.00	0	.00
9	.00	0	.00	.00	0	.00	.00	0	.00
10	.00	0	.00	.00	0	.00	.00	0	.00
11	.00	0	.00	.00	0	.00	.00	0	.00
12	.00	0	.00	.00	0	.00	.00	0	.00
13	.00	0	.00	.00	0	.00	.00	0	.00
14	.00	0	.00	.00	0	.00	.00	0	.00
15	.00	0	.00	.00	0	.00	.00	0	.00
16	.00	0	.00	.00	0	.00	.00	0	.00
17	.00	0	.00	.00	0	.00	.00	0	.00
18	.00	0	.00	.00	0	.00	.00	0	.00
19	.00	0	.00	.00	0	.00	.00	0	.00
20	.00	0	.00	.00	0	.00	.00	0	.00
21	.00	0	.00	.00	0	.00	.00	0	.00
22	.00	0	.00	.00	0	.00	.00	0	.00
23	.00	0	.00	.00	0	.00	.00	0	.00
24	.00	0	.00	.00	0	.00	.00	0	.00
25	.00	0	.00	.00	0	.00	.00	0	.00
26	.00	0	.00	.00	0	.00	.00	0	.00
27	.00	0	.00	.00	0	.00	.00	0	.00
28	.00	0	.00	.00	0	.00	.00	0	.00
29	.00	0	.00	.00	0	.00	.00	0	.00
30	.00	0	.00	.00	0	.00	.00	0	.00
31	.00	0	.00	---	---	---	.00	0	.00
TOTAL	0.00	---	0.00	0.00	---	0.00	0.00	---	0.00

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		JANUARY			FEBRUARY			MARCH	
1	.00	0	.00	.00	0	.00	.00	0	.00
2	.00	0	.00	.00	0	.00	.00	0	.00
3	.00	0	.00	.00	0	.00	.00	0	.00
4	.00	0	.00	.00	0	.00	.00	0	.00
5	.00	0	.00	.00	0	.00	.00	0	.00
6	.00	0	.00	.00	0	.00	.00	0	.00
7	.00	0	.00	.00	0	.00	.00	0	.00
8	.00	0	.00	.00	0	.00	.00	0	.00
9	.00	0	.00	.00	0	.00	.00	0	.00
10	.00	0	.00	.00	0	.00	.00	0	.00
11	.00	0	.00	.00	0	.00	.00	0	.00
12	.00	0	.00	.00	0	.00	.00	0	.00
13	.00	0	.00	.00	0	.00	.00	0	.00
14	.00	0	.00	.00	0	.00	.00	0	.00
15	.00	0	.00	.00	0	.00	.00	0	.00
16	.00	0	.00	.00	0	.00	.00	0	.00
17	.00	0	.00	.00	0	.00	.05	74	.01
18	.00	0	.00	.00	0	.00	.50	111	.15
19	.00	0	.00	.00	0	.00	5.0	252	3.4
20	.00	0	.00	.00	0	.00	3.0	198	1.6
21	.00	0	.00	.00	0	.00	1.5	143	.58
22	.00	0	.00	.00	0	.00	.85	135	.31
23	.00	0	.00	.00	0	.00	1.0	137	.37
24	.00	0	.00	.00	0	---	.88	135	.32
25	.00	0	.00	.00	0	.00	.48	116	.15
26	.00	0	.00	.00	0	.00	.52	107	.15
27	.00	0	.00	.00	0	.00	.79	136	.29
28	.00	0	.00	.00	0	.00	.85	135	.31
29	.00	0	.00	---	---	---	.68	125	.23
30	.00	0	.00	---	---	---	1.5	143	.58
31	.00	0	.00	---	---	---	11	1310	39
TOTAL	0.00	---	0.00	0.00	---	0.00	28.60	---	47.45

09216527 SEPARATION CREEK NEAR RINER, WY--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		APRIL			MAY			JUNE	
1	11	1310	39	1.8	150	.73	6.1	204	3.4
2	13	1570	55	1.7	148	.68	4.8	227	2.9
3	11	1310	39	2.0	159	.86	4.4	209	2.5
4	6.2	311	5.2	2.7	192	1.4	5.6	446	6.7
5	5.4	267	3.9	2.4	185	1.2	7.5	731	15
6	3.8	214	2.2	2.7	192	1.4	7.7	490	10
7	4.3	233	2.7	3.0	198	1.6	6.4	357	6.2
8	5.5	269	4.0	3.4	207	1.9	4.7	278	3.5
9	4.2	229	2.6	2.6	185	1.3	3.8	292	3.0
10	2.4	185	1.2	2.0	157	.85	3.2	274	2.4
11	1.8	150	.73	2.1	164	.93	2.4	186	1.2
12	1.4	143	.54	2.1	291	1.6	2.1	145	.82
13	1.6	146	.63	2.3	217	1.3	1.8	135	.66
14	1.3	142	.50	2.0	185	1.0	1.5	140	.57
15	1.8	150	.73	1.8	211	1.0	.94	147	.37
16	2.4	185	1.2	2.0	310	1.7	.73	152	.30
17	1.6	146	.63	3.8	349	3.6	.58	126	.20
18	1.4	143	.54	7.3	1060	21	.37	106	.11
19	.97	137	.36	12	1430	46	.33	77	.07
20	.79	136	.29	9.6	754	20	.14	81	.03
21	.88	135	.32	7.2	454	8.8	.05	107	.01
22	.79	136	.29	6.0	351	5.7	.02	0	.00
23	.50	111	.15	5.8	383	6.0	.00	0	.00
24	.45	107	.13	6.0	346	5.6	.00	0	.00
25	.48	116	.15	6.4	313	5.4	.00	0	.00
26	.52	114	.16	6.1	282	4.6	.00	0	.00
27	.62	119	.20	6.3	237	4.0	.00	0	.00
28	.82	136	.30	6.1	255	4.2	.00	0	.00
29	.91	134	.33	5.8	222	3.5	.00	0	.00
30	1.1	141	.42	6.0	258	4.2	.00	0	.00
31	---	---	---	6.2	261	4.4	---	---	---
TOTAL	88.93	---	163.40	137.2	---	166.45	65.16	---	59.94

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		JULY			AUGUST			SEPTEMBER	
1	.00	0	.00	.00	0	.00	.00	0	.00
2	.00	0	.00	.00	0	.00	.00	0	.00
3	.00	0	.00	.00	0	.00	.00	0	.00
4	.00	0	.00	.00	0	.00	.00	0	.00
5	.00	0	.00	.00	0	.00	.00	0	.00
6	.00	0	.00	.00	0	.00	.00	0	.00
7	.00	0	.00	.00	0	.00	.00	0	.00
8	.00	0	.00	.00	0	.00	.00	0	.00
9	.00	0	.00	.00	0	.00	.00	0	.00
10	.00	0	.00	.00	0	.00	.00	0	.00
11	.00	0	.00	.00	0	.00	.00	0	.00
12	.00	0	.00	.00	0	.00	.00	0	.00
13	.00	0	.00	.00	0	.00	.00	0	.00
14	.00	0	.00	.00	0	.00	.00	0	.00
15	.00	0	.00	.00	0	.00	.00	0	.00
16	.00	0	.00	.00	0	.00	.00	0	.00
17	.00	0	.00	.00	0	.00	.00	0	.00
18	.00	0	.00	.00	0	.00	.00	0	.00
19	.00	0	.00	.00	0	.00	.00	0	.00
20	.00	0	.00	.00	0	.00	.00	0	.00
21	.00	0	.00	.00	0	.00	.00	0	.00
22	.00	0	.00	.00	0	.00	.00	0	.00
23	.00	0	.00	.00	0	.00	.00	0	.00
24	.00	0	.00	.00	0	.00	.00	0	.00
25	.00	0	.00	.00	0	.00	.00	0	.00
26	.00	0	.00	.00	0	.00	.00	0	.00
27	.00	0	.00	.00	0	.00	.00	0	.00
28	.00	0	.00	.00	0	.00	.00	0	.00
29	.00	0	.00	.00	0	.00	.00	0	.00
30	.00	0	.00	.00	0	.00	.00	0	.00
31	.00	0	.00	.00	0	.00	---	---	---
TOTAL	0.00	---	0.00	0.00	---	0.00	0.00	---	0.00
YEAR	319.89		437.24						

09216537 DELANEY DRAW NEAR RED DESERT, WY

LOCATION (REVISED).--Lat 41°38'22", long 108°07'43", in NE¼ sec.8, T.19 N., R.95 W., Sweetwater County, Hydrologic Unit 14040200, 1.0 mi (1.6 km) south of Red Desert and 1.3 mi (2.1 km) upstream from culvert on Interstate Highway 80.

DRAINAGE AREA.--32.8 mi^2 (85.0 km^2).

PERIOD OF RECORD.--Water years 1976 to September 1978 (discontinued).

REMARKS.--Peak-flow information also collected at this site.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)
MAY					
17...	1600	9.0	420	30400	739

09216545 BITTER CREEK NEAR BITTER CREEK, WY

LOCATION.--Lat 41°29'35", long 108°30'47", in NW¼NW¼SE¼ sec.36, T.18 N., R.99 W., Sweetwater County, Hydrologic Unit 14040105, on left bank 2.1 mi (3.4 km) downstream from Red Wash and 4.8 mi (7.7 km) southeast of town of Bitter Creek.

DRAINAGE AREA.--308 mi^2 (798 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1975 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,760 ft (2,060 m), from topographic map.

REMARKS.--Records poor. No gage-height record Jan. 16 to Feb. 14, Mar. 25 to May 4.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 640 ft^3/s (18.1 m^3/s) July 25, 1977, gage height, 8.80 ft (2.682 m); no flow for many days in 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 130 ft^3/s (3.68 m^3/s) Mar. 19, gage height, 5.58 ft (1.701 m); minimum daily, 0.15 ft^3/s (0.004 m^3/s) Feb. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.72	.72	.70	.40	.53	.29	3.4	3.4	1.2	.38	.44	.53
2	.72	.77	.74	.37	.55	.27	4.2	2.1	1.3	.34	.44	.56
3	.72	.85	.80	.33	.57	.25	5.3	1.3	1.2	.32	.44	.53
4	.71	.86	.90	.32	.60	.24	4.6	1.1	1.3	.31	.42	.50
5	.71	.82	.90	.34	.57	.28	3.9	1.8	1.3	.33	.42	.42
6	.74	.82	.80	.37	.55	.50	9.0	4.3	2.6	.34	.42	.38
7	.82	.82	.75	.40	.57	.90	8.0	15	1.8	.34	.42	.40
8	.78	.82	.70	.43	.60	1.5	4.4	48	.82	.33	.42	.42
9	.78	.75	.67	.45	.57	3.0	1.6	53	.68	.32	.42	.46
10	.78	.60	.63	.48	.53	6.4	.90	39	.68	.31	.44	.50
11	.99	.50	.63	.50	.60	5.8	.72	13	.65	.29	.40	.50
12	.90	.50	.66	.53	.50	5.6	.54	2.5	.62	.29	.42	.53
13	.78	.55	.70	.54	.40	5.0	.50	1.1	.65	.29	.48	.50
14	.71	.60	.74	.55	.30	4.5	.53	.62	.62	.27	.53	.53
15	.71	.65	.80	.54	.22	4.2	.59	.53	.62	.25	.53	.53
16	.71	.72	.83	.53	.18	7.4	.71	.53	.62	.27	.44	.50
17	.71	.60	.75	.53	.16	9.1	.83	.59	.62	.27	.40	.48
18	.74	.48	.60	.51	.15	16	.70	11	.62	.29	.42	.50
19	.78	.40	.45	.45	.17	56	.60	46	.62	.33	.44	.50
20	.82	.35	.34	.41	.21	52	.54	10	.59	.32	.40	.48
21	.82	.30	.30	.37	.24	56	.58	2.3	.59	.32	.40	.46
22	.82	.30	.33	.33	.27	36	.49	1.6	.56	.33	.40	.50
23	.82	.35	.36	.31	.31	19	.40	1.5	.53	.33	.40	.50
24	.86	.40	.40	.30	.34	23	.39	1.4	.48	.33	.42	.50
25	.86	.60	.41	.31	.37	23	.41	1.4	.46	.31	.46	.53
26	.86	.90	.37	.36	.37	19	.55	1.4	.42	.31	.50	.53
27	.90	1.1	.36	.38	.33	15	1.0	1.4	.46	.16	.50	.50
28	.90	1.3	.35	.40	.31	11	2.0	1.3	.46	.30	.50	.53
29	.90	1.2	.35	.47	---	7.8	3.0	1.3	.48	.32	.50	.56
30	.94	.90	.37	.53	---	5.7	4.5	1.3	.59	.38	.59	.56
31	.82	---	.42	.52	---	4.5	---	1.2	---	.40	.53	---
TOTAL	24.83	20.53	18.11	13.26	11.07	399.23	64.88	270.97	24.14	9.68	13.94	14.92
MEAN	.80	.68	.58	.43	.40	12.9	2.16	8.74	.80	.31	.45	.50
MAX	.99	1.3	.90	.55	.60	56	9.0	53	2.6	.40	.59	.56
MIN	.71	.30	.30	.30	.15	.24	.39	.53	.42	.16	.40	.38
AC-FT	49	41	36	26	22	792	129	537	48	19	28	30

CAL YR 1977 TOTAL 844.99 MEAN 2.32 MAX 333 MIN .00 AC-FT 1680
WTR YR 1978 TOTAL 885.56 MEAN 2.43 MAX 56 MIN .15 AC-FT 1760

09216545 BITTER CREEK NEAR BITTER CREEK, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	SAMPLING DEPTH (FT)	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	OXYGEN, DISSOLVED (MG/L)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)
OCT												
03...	1250	--	.71	2000	--	13.0	70	--	--	--	--	--
10...	1700	--	.78	1700	8.8	7.0	70	10.2	3.8	190	0	32
31...	1125	--	A .82	2000	--	.0	90	--	--	--	--	--
NOV												
29...	1150	--	A 1.2	1100	--	.0	95	--	--	--	--	--
DEC												
02...	0930	--	A .74	2500	8.4	.0	75	10.7	1.6	300	0	61
17...	1500	--	A .75	1650	8.5	.0	100	11.8	3.3	280	0	53
27...	1045	--	A .36	2600	--	.0	55	--	--	--	--	--
JAN												
30...	1200	--	A .53	4500	--	.0	50	--	--	--	--	--
FEB												
14...	1630	--	A .30	2300	8.3	.0	75	9.2	2.5	300	0	60
MAR												
03...	1240	--	A .25	1600	--	.0	55	--	--	--	--	--
13...	1600	--	A 5.0	850	8.2	1.5	1600	10.9	4.8	73	0	19
18...	1505	--	39	400	--	7.0	2200	--	--	--	--	--
21...	1135	--	50	480	--	5.5	2000	--	--	--	--	--
23...	1435	--	19	500	--	8.0	2300	--	--	--	--	--
APR												
06...	1200	--	16	950	--	--	--	--	--	--	--	--
MAY												
03...	0800	--	A 1.3	2400	8.7	5.0	220	10.2	2.6	260	0	46
04...	1300	--	1.1	1800	--	9.5	160	--	--	--	--	--
07...	1300	--	14	3000	--	--	--	--	--	--	--	--
08...	0930	--	46	700	--	--	--	--	--	--	--	--
22...	1245	--	1.7	1600	--	17.5	230	--	--	--	--	--
22...	1730	--	1.7	1600	8.5	17.5	180	7.3	3.4	230	0	51
JUN												
05...	1305	--	1.3	2300	--	17.0	85	--	--	--	--	--
15...	1700	--	.59	2100	9.1	23.0	85	7.5	4.5	190	0	25
20...	1250	--	.56	1800	--	20.5	55	--	--	--	--	--
26...	1330	<1.0	.44	2200	9.3	23.0	65	8.2	--	160	0	19
JUL												
31...	1650	--	.38	2000	9.2	21.0	85	8.2	6.4	150	0	16
AUG												
01...	1205	--	.46	2100	--	19.0	120	--	--	--	--	--
05...	1415	.2	.44	2300	9.3	27.0	150	9.4	--	130	0	15
23...	1125	--	.42	2230	--	16.0	180	--	--	--	--	--
29...	1700	--	.53	2100	9.3	24.0	160	8.2	4.4	180	0	22
SEP												
05...	1135	--	.44	2750	--	16.5	320	--	--	--	--	--
18...	1325	--	.56	1500	--	7.5	260	--	--	--	--	--
26...	1600	--	.50	2200	9.0	17.0	80	9.7	3.8	140	0	23

A-Daily mean discharge.

09216545 BITTER CREEK NEAR BITTER CREEK, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 105 DEG. C, DIS-SOLVED (MG/L)
OCT												
03...	--	--	--	--	--	--	--	--	--	--	--	--
10...	26	410	13	2.0	390	7	330	650	46	1.1	5.6	--
31...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
29...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
02...	37	570	14	3.0	510	0	420	940	71	1.3	12	--
17...	36	320	8.3	2.6	420	0	340	570	32	.8	13	--
27...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
30...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
14...	36	450	11	2.2	460	0	380	770	61	1.0	12	--
MAR												
03...	--	--	--	--	--	--	--	--	--	--	--	--
13...	6.2	110	5.6	1.3	150	0	120	170	14	.5	5.4	--
18...	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
06...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
03...	35	460	12	3.1	420	7	360	790	61	1.0	7.3	--
04...	--	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--
22...	25	310	8.9	3.2	380	0	310	490	41	.8	12	--
JUN												
05...	--	--	--	--	--	--	--	--	--	--	--	--
15...	30	400	13	2.3	280	4	240	700	47	1.1	6.4	1500
20...	--	--	--	--	--	--	--	--	--	--	--	--
26...	27	480	17	1.8	360	20	330	780	56	1.3	1.0	--
JUL												
31...	27	430	15	3.2	320	34	320	660	42	1.1	.5	--
AUG												
01...	--	--	--	--	--	--	--	--	--	--	--	--
05...	23	500	19	3.0	340	41	350	750	50	1.4	.5	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
29...	30	440	14	3.8	400	31	380	690	47	1.3	1.9	--
SEP												
05...	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--
26...	20	440	16	3.4	380	8	330	710	46	1.2	3.1	--

09216545 BITTER CREEK NEAR BITTER CREEK, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)
OCT												
03...	--	--	--	--	--	--	--	--	--	--	--	--
10...	1370	1.86	2.89	--	.07	--	.03	--	--	.58	--	.61
31...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
29...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
02...	1950	2.65	3.90	--	.14	--	.11	--	--	.50	--	.61
17...	1230	1.67	2.49	--	.18	--	.16	--	--	.56	--	.72
27...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
30...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
14...	1620	2.20	1.31	--	.15	--	.04	--	--	.46	--	.50
MAR												
03...	--	--	--	--	--	--	--	--	--	--	--	--
13...	401	.55	5.41	--	.29	--	.05	--	--	2.7	--	2.7
18...	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
06...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
03...	1620	2.20	5.69	--	.05	--	.01	--	--	.82	--	.83
04...	--	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--
22...	1120	1.52	5.14	--	.34	--	.21	--	--	.89	--	1.1
JUN												
05...	--	--	--	--	--	--	--	--	--	--	--	--
15...	1350	1.84	2.15	114	.03	--	.13	--	--	1.2	--	1.3
20...	--	--	--	--	--	--	--	--	--	--	--	--
26...	1560	2.12	1.85	--	--	.00	--	.00	.00	--	.77	--
JUL												
31...	1370	1.86	1.41	--	.05	--	.00	--	--	1.6	--	1.6
AUG												
01...	--	--	--	--	--	--	--	--	--	--	--	--
05...	1550	2.11	1.84	--	--	.11	--	.01	.01	--	.77	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
29...	1470	2.00	2.10	--	.01	--	.20	--	--	1.1	--	1.3
SEP												
05...	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--
26...	1440	1.96	1.94	--	.05	--	.07	--	--	.93	--	1.0

09216545 BITTER CREEK NEAR BITTER CREEK, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TUTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	PHYTOPLANKTON, TOTAL (CELLS PER ML)	INVERTEBRATES, BENTHIC WET WT. (G/SQ METER)	BIOMASS CHLOROPHYLL RATIO PLANKTON (UNITS)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTOPLANKTON CHROMO FLUORUM (UG/L)
OCT												
03...	--	--	--	--	--	--	--	--	--	--	--	--
10...	--	.68	3.0	.11	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
29...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
02...	--	.75	3.3	.09	--	--	--	--	--	--	--	--
17...	--	.90	4.0	.12	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
30...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
14...	--	.65	2.9	.10	--	--	--	--	--	--	--	--
MAR												
03...	--	--	--	--	--	--	--	--	--	--	--	--
13...	--	3.0	13	1.6	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
06...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
03...	--	.88	3.9	.22	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	1.4	6.4	.29	--	--	--	--	--	--	--	--
JUN												
05...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	1.3	5.9	.02	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--
26...	.77	--	--	.07	.00	.00	.00	45	.7	380500	.441	.000
JUL												
31...	--	1.7	7.3	.12	--	--	--	--	--	--	--	--
AUG												
01...	--	--	--	--	--	--	--	--	--	--	--	--
05...	.78	--	--	.19	.04	.01	.03	12	.0	365900	.921	.063
23...	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	1.3	5.8	.28	--	--	--	--	--	--	--	--
SEP												
05...	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	1.1	4.6	.20	--	--	--	--	--	--	--	--

DATE	TIME	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)
OCT											
10...	1700	3200	--	2	--	0	--	230	10	--	20
DEC											
02...	0930	--	--	--	--	--	--	320	--	--	--
17...	1500	--	--	--	--	--	--	200	--	--	--
FEB											
14...	1630	0	0	2	2	0	0	270	0	4	10
MAR											
13...	1600	--	--	--	--	--	--	80	--	--	--
MAY											
03...	0800	10000	--	1	--	0	--	280	3	--	10
22...	1730	--	--	--	--	--	--	180	--	--	--
JUN											
15...	1700	--	--	--	--	--	--	250	--	--	--
26...	1330	--	--	--	--	--	--	460	--	--	--
JUL											
31...	1650	420	--	3	--	0	--	270	9	--	10
AUG											
05...	1415	--	--	--	--	--	--	260	--	--	--
29...	1700	--	--	--	--	--	--	260	--	--	--
SEP											
26...	1600	--	--	--	--	--	--	270	--	--	--

09216545 BITTER CREEK NEAR BITTER CREEK, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
OCT											
10...	--	<10	--	3400	40	<100	--	60	--	70	--
DEC											
02...	--	--	--	--	70	--	--	--	--	--	--
17...	--	--	--	--	100	--	--	--	--	--	--
FEB											
14...	10	10	4	3100	170	14	3	70	70	60	10
MAR											
13...	--	--	--	--	180	--	--	--	--	--	--
MAY											
03...	--	18	--	6200	210	25	--	70	--	110	--
22...	--	--	--	--	190	--	--	--	--	--	--
JUN											
15...	--	--	--	--	230	--	--	--	--	--	--
26...	--	--	--	--	50	--	--	--	--	--	0
JUL											
31...	--	17	--	3100	330	20	--	70	--	60	--
AUG											
05...	--	--	--	--	80	--	--	--	--	--	20
29...	--	--	--	--	770	--	--	--	--	--	--
SEP											
26...	--	--	--	--	140	--	--	--	--	--	--

DATE	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT											
10...	.0	--	8	--	<50	--	0	--	--	20	--
DEC											
02...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
FEB											
14...	.0	.0	11	10	8	3	1	0	3.0	30	20
MAR											
13...	--	--	--	--	--	--	--	--	--	--	--
MAY											
03...	.0	--	10	--	6	--	0	--	--	40	--
22...	--	--	--	--	--	--	--	--	--	--	--
JUN											
15...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
JUL											
31...	.0	--	16	--	8	--	1	--	--	30	--
AUG											
05...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
SEP											
26...	--	--	--	--	--	--	--	--	--	--	--

DATE	TIME	GROSS ALPHA, DIS-SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS-SOLVED (UG/L AS U)
JUN									
15...	1700	<13	5.8	<5.4	5.7	<5.0	5.6	.06	48

09216545 BITTER CREEK NEAR BITTER CREEK, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	TEMPER-ATURE (DEG C)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM
OCT										
03...	1250	13.0	.71	178	.34	--	--	--	--	--
31...	1125	.0	A.82	196	.43	--	--	--	--	--
NOV										
29...	1150	.0	A1.2	216	.70	--	--	--	--	--
DEC										
27...	1045	.0	A.36	218	.21	--	--	--	--	--
JAN										
30...	1200	.0	A.53	237	.34	--	--	--	--	--
MAR										
03...	1240	.0	A.25	127	.09	--	--	--	--	--
18...	1505	7.0	39	5140	541	69	89	97	99	100
21...	1135	5.5	50	4080	551	80	94	100	--	--
23...	1435	8.0	19	3720	191	89	97	100	--	--
APR										
06...	1200	--	16	5800	251	--	--	--	--	--
MAY										
04...	1300	9.5	1.1	324	.96	--	--	--	--	--
07...	1300	--	14	5380	203	--	--	--	--	--
08...	0930	--	46	19000	2360	--	--	--	--	--
22...	1245	17.5	1.7	642	2.9	--	--	--	--	--
JUN										
05...	1305	17.0	1.3	180	.63	--	--	--	--	--
20...	1250	20.5	.56	118	.18	--	--	--	--	--
JUL										
14...	1005	14.0	.32	172	.15	--	--	--	--	--
AUG										
01...	1205	19.0	.46	218	.27	--	--	--	--	--
05...	1415	27.0	.44	283	.34	--	--	--	--	--
23...	1125	16.0	.42	330	.37	--	--	--	--	--
SEP										
05...	1135	16.5	.44	488	.58	--	--	--	--	--
18...	1325	7.5	.56	648	.98	--	--	--	--	--

A-Daily mean discharge.

DATE	TIME	TEMPER-ATURE (DEG C)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	NUMBER OF SAM-PLING POINTS	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM
SEP								
05...	1135	16.5	.44	9	18	22	25	27

DATE	BED MAT. FALL DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 128 MM
SEP								
05...	28	30	33	36	38	52	64	100

09216545 BITTER CREEK NEAR BITTER CREEK, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO AUGUST 1978

DATE	JUN 26,78	AUG 5,78
TIME	1330	1415
TOTAL CELLS/ML	45	12
DIVERSITY: DIVISION	0.7	0.0
.CLASS	0.7	0.0
..ORDER	1.5	0.0
...FAMILY	1.9	0.0
....GENUS	1.9	0.0

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)				
.CHLOROPHYCEAE				
..CHLOROCOCCALES				
...OOCYSTACEAE				
....TREUBARIA	9#	20	--	-
..ZYGNEMATALES				
...DESMIDIACEAE				
....COSMARIUM	--	-	12#	100
CHRYSOPHYTA				
.BACILLARIOPHYCEAE				
..CENTRALES				
...COSCINODISCACEAE				
....CYCLOTELLA	18#	40	--	-
..PENNALES				
...NAVICULACEAE				
....NAVICULA	9#	20	--	-
...SURIRELLACEAE				
....SURIRELLA	9#	20	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

09216545 BITTER CREEK NEAR BITTER CREEK, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

JUNE 26, 1978
1330 HOURS

PERIPHYTON IDENTIFICATION

_ORGANISM__NAME_______________	_COMMON__NAME______
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..CHLOROCOCCALES	
...SCENEDESMACEAE	
....ACTINASTRUM	
..VOLVOCALES	
...CHLAMYDOMONADACEAE	
....CHLAMYDOMONAS	
..ZYGNEMATALES	
...DESMIDIACEAE	PLACODERM DESMIDS
....COSMARIUM	
...ZYGNEMATACEAE	
....MOUGEOTIA	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...NAVICULACEAE	NAVICULOID
....ENTOMONEIS	
..CENTRALES	CENTRIC
...COSCINODISCACEAE	
....CYCLOTELLA	
..PENNALES	PENNATE
...ACHNANTHACEAE	
....RHOICOSPHENIA	
...CYMBELLACEAE	
....CYMBELLA	
....EPITHEMIA	
....RHOPALODIA	
...DIATOMACEAE	
....DIATOMA	
...FRAGILARIACEAE	
....FRAGILARIA	
....SYNEDRA	
...NAVICULACEAE	NAVICULOID
....NAVICULA	
....PINNULARIA	
...NITZSCHIACEAE	
& ....NITZSCHIA	
...SURIRELLACEAE	
....SURIRELLA	
CYANOPHYTA	BLUE-GREEN ALGAE
.CYANOPHYCEAE	
..HORMOGONALES	FILAMENTOUS BL-GREEN
...NOSTOCACEAE	
& ....ANABAENA	
...OSCILLATORIACEAE	
....OSCILLATORIA	
....SPIRULINA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
SAMPLING METHOD: SURBER
ANALYSIS METHOD: GLASS CHAMBER(12MM CIRC), INVERTED MICROSCOPE

09216545 BITTER CREEK NEAR BITTER CREEK, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

AUG. 5, 1978
1415 HOURS

PERIPHYTON IDENTIFICATION

_ORGANISM__NAME_______________	_COMMON__NAME______
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..CLADOPHORALES	
...CLADOPHORACEAE	
& ....RHIZOCLONIUM	
..ZYGNEMATALES	
...DESMIDIACEAE	PLACODERM DESMIDS
....COSMARIUM	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...CYMBELLACEAE	
& ....RHOPALODIA	
...FRAGILARIACEAE	
....SYNEDRA	
...GOMPHONEMATACEAE	
....GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
....NAVICULA	
CYANOPHYTA	BLUE-GREEN ALGAE
.CYANOPHYCEAE	
..HORMOGONALES	FILAMENTOUS BL-GREEN
...NOSTOCACEAE	
& ....ANABAENA	
...OSCILLATORIACEAE	
....SPIRULINA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: SLIDE MOUNTING, INVERTED MICROSCOPE

BENTHIC INVERTEBRATE ANALYSES, OCTOBER 1977 TO AUGUST 1978

DATE	JUN 26,78	AUG 5,78
TIME	1330	1415
TOTAL COUNT	25	0
DIVERSITY: PHYLUM	0.0	0.0
.CLASS	0.2	0.0
..ORDER	1.6	0.0
...FAMILY	2.3	0.0
....GENUS	2.3	0.0
....GENUS-INSECTA	2.1	0.0

ORGANISM	COUNT	COUNT
ARTHROPODA (ARTHROPODS)		
.INSECTA		
..COLEOPTERA		
...ELMIDAE		
....DUBIRAPHIA	1	--
..DIPTERA		
...CHIRONOMIDAE		
....CRICOTOPUS	5	--
...SIMULIIDAE		
....SIMULIUM	4	--
...TABANIDAE		
....TABANUS	2	--
..EPHEMEROPTERA		
...BAETIDAE		
....BAETIS	11	--
..PLECOPTERA		
...NEMOURIDAE		
....NEMOURA	1	--
.ARACHNIDA		
..HYDRACARINA		
...UNKNOWN FAMILY		
....UNKNOWN GENUS #3	1	--

09216550 DEADMAN WASH NEAR POINT OF ROCKS, WY

LOCATION.--Lat 41°40'30", long 108°44'10", in SE¼ sec.25, T.20 N., R.101 W., Sweetwater County, Hydrologic Unit 14040105, at bridge on old U.S. Highway 30 and 2.8 mi (4.5 km) east of Point of Rocks.

DRAINAGE AREA.--152 mi^2 (394 km^2).

PERIOD OF RECORD.--Water years 1976 to September 1978 (discontinued).

REMARKS.--Peak-flow information also collected at this site.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN 20...	1525	.12	3700	26.5	4	48	.02

09216562 BITTER CREEK ABOVE SALT WELLS CREEK, NEAR SALT WELLS, WY

LOCATION.--Lat 41°38'52", long 108°59'50", in SW¼SE¼SW¼ sec.2, T.19 N., R.103 W., Sweetwater County, Hydrologic Unit 14040105, on right bank at upstream side of bridge on county road, 0.9 mi (1.4 km) southwest of Salt Wells, 2.3 mi (3.7 km) upstream from Salt Wells Creek, and 12 mi (19 km) east of Rock Springs.

DRAINAGE AREA.--836 mi² (2,165 km²), of which 6.8 mi² (17.6 km²) is probably noncontributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1976 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,330 ft (1,929 m), from topographic map.

REMARKS.--Records poor. No diversion above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 683 ft³/s (19.3 m³/s) Aug. 1, 1976, gage height, 6.58 ft (2.006 m), from floodmarks; no flow for many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 282 ft³/s (7.99 m³/s) June 5, gage height, 4.61 ft (1.405 m); maximum gage height, 5.60 ft (1.707 m) Mar. 7 (backwater from ice); no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.02	1.3	.00	.10	3.6	4.9	5.4	.07	.01	.00	.00
2	.00	.01	1.4	.00	.10	3.3	6.6	6.0	.10	.00	.00	.00
3	.00	.11	1.6	.00	.11	3.1	8.4	2.0	.58	.00	.00	.00
4	.00	.64	1.8	.00	.12	2.8	7.2	1.6	.64	.00	.00	.00
5	.00	.98	1.5	.00	.11	2.8	6.0	4.8	100	.00	.00	.00
6	.16	.82	1.0	.00	.11	3.3	15	8.4	61	.00	.00	.00
7	.17	1.1	.70	.00	.12	4.5	11	14	15	.00	.00	.00
8	.44	.55	.50	.00	.12	5.9	4.4	16	3.1	.00	.00	.00
9	.08	.20	.40	.00	.12	8.0	2.1	16	1.1	.00	.00	.00
10	.00	.08	.30	.00	.13	10	1.4	28	.98	.00	.00	.00
11	.00	.06	.24	.00	.14	9.0	1.1	40	.98	.00	.00	.00
12	.00	.06	.20	.00	.14	8.0	.76	43	.64	.00	.00	.00
13	.00	.07	.14	.05	.13	7.5	.76	30	.38	.00	3.1	.00
14	.32	.09	.10	.10	.12	7.0	.82	12	.20	.00	5.0	.00
15	.43	.16	.05	.11	.11	6.1	.90	2.8	.13	.00	.64	.00
16	.43	.40	.02	.11	.10	7.0	1.1	1.3	.06	.00	.24	.00
17	.43	.30	.01	.11	.00	9.0	1.3	1.3	.04	.00	.04	.22
18	.38	.20	.00	.11	.00	13	1.1	13	.04	.00	.00	11
19	.33	.10	.00	.11	.00	30	.90	26	.04	.00	.00	19
20	.28	.04	.00	.11	.10	51	.82	13	.40	.00	.00	11
21	.28	.01	.00	.11	.60	100	.90	27	.28	.00	.00	2.8
22	.13	.00	.00	.11	2.0	71	.66	23	.24	.00	.00	.58
23	.28	.00	.00	.11	2.5	53	.58	6.6	.20	.00	.00	.20
24	.33	.10	.00	.10	3.0	43	.58	2.8	.20	.00	.00	.07
25	.28	.50	.00	.05	3.6	31	.64	2.1	1.1	.00	.00	.01
26	.33	1.0	.00	.00	4.0	23	.98	.70	.98	.00	.00	.13
27	.28	1.7	.00	.00	4.2	20	1.4	.58	.33	.00	.00	.10
28	.20	2.0	.00	.00	4.0	13	2.8	.43	.13	.00	.00	.03
29	.24	1.9	.00	.00	---	8.4	4.4	.24	.10	.00	.00	.00
30	.33	1.7	.00	.04	---	6.6	6.0	.13	.10	.00	.00	.00
31	.05	---	.00	.10	---	4.9	---	.10	---	.00	.00	---
TOTAL	6.18	14.90	11.26	1.43	25.88	568.8	95.50	348.28	189.14	.01	9.02	45.14
MEAN	.20	.50	.36	.046	.92	18.3	3.18	11.2	6.30	.000	.29	1.50
MAX	.44	2.0	1.8	.11	4.2	100	15	43	100	.01	5.0	19
MIN	.00	.00	.00	.00	.00	2.8	.58	.10	.04	.00	.00	.00
AC-FT	12	30	22	2.8	51	1130	189	691	375	.02	18	90

CAL YR 1977 TOTAL 1461.62 MEAN 4.00 MAX 278 MIN .00 AC-FT 2900
WTR YR 1978 TOTAL 1315.54 MEAN 3.60 MAX 100 MIN .00 AC-FT 2610

092 6562 BITTER CREEK ABOVE SALT WELLS CREEK, NEAR SALT WELLS, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1976 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
OCT											
15...	1815	.38	5000	8.6	12.5	8	7.5	3.0	1800	1600	240
NOV											
27...	1400	A1.7	4000	8.2	1.0	60	12.1	3.3	1400	1000	200
29...	0900	A1.9	4500	--	.0	25	--	--	--	--	--
DEC											
17...	1630	A.01	6000	8.2	.0	25	11.4	2.6	2000	1500	280
JAN											
19...	1430	A.11	7200	7.8	.0	3	9.2	2.7	2400	1900	330
30...	1645	A.04	6000	--	.0	10	--	--	--	--	--
FEB											
16...	1400	A.10	4200	8.1	.0	10	11.2	--	2000	1600	280
MAR											
03...	1715	A3.1	1300	--	.0	60	--	--	--	--	--
14...	1700	A7.0	1000	8.2	.0	1400	10.4	5.6	220	91	41
18...	1015	A13	[illegible]80	--	1.0	600	--	--	--	--	--
21...	1535	121	1700	--	2.5	4800	--	--	--	--	--
23...	1145	53	950	--	1.5	4300	--	--	--	--	--
APR											
07...	1540	9.6	1700	--	12.0	950	--	--	--	--	--
29...	1300	4.0	5000	8.7	18.0	130	8.2	4.4	1400	1100	190
30...	1120	3.6	5000	--	8.5	260	--	--	--	--	--
MAY											
11...	1240	42	1500	--	10.0	5200	--	--	--	--	--
23...	1145	7.2	1650	--	13.5	1600	--	--	--	--	--
23...	1500	5.4	1700	8.4	15.5	1600	7.7	2.6	300	97	55
JUN											
02...	1445	.16	>7000	--	20.0	5	--	--	--	--	--
05...	0945	1.2	6000	--	12.5	130	--	--	--	--	--
17...	1430	.13	>8000	8.5	25.0	4	8.5	3.6	2900	2600	120
20...	1025	.58	>8000	--	17.5	20	--	--	--	--	--
SEP											
18...	1150	13	1300	--	4.0	11700	--	--	--	--	--
28...	1300	.07	>8000	8.6	17.5	1	10.8	3.4	1900	1700	150

A-Daily mean discharge.

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SURP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)
OCT											
15...	300	640	6.5	18	330	1	270	2200	400	.8	1.8
NOV											
27...	210	590	7.0	15	410	0	340	1500	440	.7	2.9
29...	--	--	--	--	--	--	--	--	--	--	--
DEC											
17...	310	920	9.0	18	580	0	480	2600	670	.9	3.8
JAN											
19...	380	790	7.0	7.4	640	0	530	2400	670	.9	9.0
30...	--	--	--	--	--	--	--	--	--	--	--
FEB											
16...	320	620	6.0	17	480	0	390	2200	360	.9	11
MAR											
03...	--	--	--	--	--	--	--	--	--	--	--
14...	29	140	4.1	3.0	160	0	130	300	46	.6	4.8
18...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
APR											
07...	--	--	--	--	--	--	--	--	--	--	--
29...	230	690	8.0	15	390	9	330	1700	530	.7	2.7
30...	--	--	--	--	--	--	--	--	--	--	--
MAY											
11...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
23...	40	280	7.0	5.5	250	0	210	540	99	.8	7.6
JUN											
02...	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--
17...	640	2700	22	26	420	0	340	5900	1900	.6	1.2
20...	--	--	--	--	--	--	--	--	--	--	--
SEP											
18...	--	--	--	--	--	--	--	--	--	--	--
28...	380	1500	15	20	260	12	230	3200	1200	.7	.4

09216562 BITTER CREEK ABOVE SALT WELLS CREEK, NEAR SALT WELLS, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT										
15...	3970	5.40	4.07	.01	.07	1.0	1.1	1.1	4.9	.08
NOV										
27...	3160	4.30	14.5	.78	.03	.86	.89	1.7	7.4	.10
29...	--	--	--	--	--	--	--	--	--	--
DEC										
17...	5090	6.92	.14	1.4	.18	.75	.93	2.3	10	.04
JAN										
19...	4900	6.66	1.46	1.2	.16	.63	.79	2.0	8.8	.02
30...	--	--	--	--	--	--	--	--	--	--
FEB										
16...	4050	5.51	1.09	4.4	.08	.79	.87	5.3	23	.04
MAR										
03...	--	--	--	--	--	--	--	--	--	--
14...	644	.88	12.2	.44	.10	2.6	2.7	3.1	14	1.8
18...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--
APR										
07...	--	--	--	--	--	--	--	--	--	--
29...	3560	4.84	38.4	.44	.11	1.3	1.4	1.8	8.1	.24
30...	--	--	--	--	--	--	--	--	--	--
MAY										
11...	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--
23...	1150	1.56	16.8	1.4	.00	4.9	4.9	6.3	28	1.6
JUN										
02...	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--
17...	11500	15.6	4.04	.02	.04	1.6	1.6	1.6	7.2	.03
20...	--	--	--	--	--	--	--	--	--	--
SEP										
18...	--	--	--	--	--	--	--	--	--	--
28...	6590	8.96	1.25	.02	.05	1.7	1.7	1.7	7.6	.06

DATE	TIME	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)
OCT											
15...	1815	1200	--	1	--	0	--	580	10	--	10
NOV											
27...	1400	--	--	--	--	--	--	420	--	--	--
DEC											
17...	1630	--	--	--	--	--	--	630	--	--	--
JAN											
19...	1430	70	10	1	1	0	0	670	3	3	10
FEB											
16...	1400	--	--	--	--	--	--	560	--	--	--
MAR											
14...	1700	--	--	--	--	--	--	130	--	--	--
APR											
29...	1300	4000	--	3	--	10	--	490	3	--	10
MAY											
23...	1500	--	--	--	--	--	--	230	--	--	--
JUN											
17...	1430	--	--	--	--	--	--	1200	--	--	--
SEP											
28...	1300	--	--	--	--	--	--	830	--	--	--

09216562 BITTER CREEK ABOVE SALT WELLS CREEK, NEAR SALT WELLS, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
OCT 15...	--	10	--	1600	80	100	--	170	--	70	--
NOV 27...	--	--	--	--	60	--	--	--	--	--	--
DEC 17...	--	--	--	--	110	--	--	--	--	--	--
JAN 19...	20	5	3	280	30	13	2	220	230	270	220
FEB 16...	--	--	--	--	70	--	--	--	--	--	--
MAR 14...	--	--	--	--	90	--	--	--	--	--	--
APR 29...	--	20	--	6200	200	10	--	130	--	190	--
MAY 23...	--	--	--	--	180	--	--	--	--	--	--
JUN 17...	--	--	--	--	120	--	--	--	--	--	--
SEP 28...	--	--	--	--	210	--	--	--	--	--	--

DATE	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT 15...	.0	--	4	--	50	--	6	--	--	20	--
NOV 27...	--	--	--	--	--	--	--	--	--	--	--
DEC 17...	--	--	--	--	--	--	--	--	--	--	--
JAN 19...	.6	.0	4	4	7	6	10	8	9.0	30	20
FEB 16...	--	--	--	--	--	--	--	--	--	--	--
MAR 14...	--	--	--	--	--	--	--	--	--	--	--
APR 29...	.0	--	1	--	15	--	3	--	--	20	--
MAY 23...	--	--	--	--	--	--	--	--	--	--	--
JUN 17...	--	--	--	--	--	--	--	--	--	--	--
SEP 28...	--	--	--	--	--	--	--	--	--	--	--

09216562 BITTER CREEK ABOVE SALT WELLS CREEK, NEAR SALT WELLS, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	TEMPER-ATURE (DEG C)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM
NOV										
29...	0900	.0	A1.9	170	.87	--	--	--	--	--
JAN										
30...	1645	.0	A.04	56	.01	--	--	--	--	--
MAR										
03...	1715	.0	A3.1	266	2.2	--	--	--	--	--
18...	1015	1.0	A13	2780	98	40	56	74	91	100
21...	1535	2.5	121	19700	6440	39	56	84	98	100
23...	1145	1.5	53	13000	1860	50	74	92	99	100
APR										
07...	1540	12.0	9.6	2480	64	--	--	--	--	--
30...	1120	8.5	3.6	1110	11	--	--	--	--	--
MAY										
11...	1240	10.0	42	14600	1660	62	78	89	98	100
23...	1145	13.5	7.2	3200	62	75	84	88	93	100
JUN										
02...	1445	20.0	.16	53	.02	--	--	--	--	--
05...	0945	12.5	1.2	347	1.1	--	--	--	--	--
20...	1025	17.5	.58	224	.35	--	--	--	--	--
SEP										
18...	1150	4.0	13	20200	709	76	97	99	100	--

A-Daily mean discharge.

DATE	TIME	TEMPER-ATURE (DEG C)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	NUMBER OF SAM-PLING POINTS	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM	BED MAT. FALL DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM
JUN												
02...	1445	20.0	.16	8	10	35	85	92	94	96	96	100
SEP												
18...	1150	4.0	13	20	12	31	86	96	98	99	100	--

09216565 SALT WELLS CREEK NEAR SOUTH BAXTER, WY

LOCATION (REVISED).--Lat 41°11'56", long 108°59'52", in SE¼NE¼NW¼ sec.15, T.14 N., R.103 W., Sweetwater County, Hydrologic Unit 14040105, on left bank 0.05 mi (0.08 km) downstream from unnamed tributary, 6.0 mi (9.7 km) upstream from Gap Creek, 13.0 mi (20.9 km) southeast of South Baxter, and 29.0 mi (46.7 km) southeast of Rock Springs. Prior to Oct. 13, 1977, on right bank.

DRAINAGE AREA.--34.7 mi² (89.9 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1976 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 7,080 ft (2,158 m), from topographic map. Prior to Oct. 13, 1977, gage on right bank at present datum.

REMARKS.--Records poor. No diversion above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 347 ft³/s (9.83 m³/s) July 24, 1977, gage height, 5.75 ft (1.753 m), from rating curve extended above 6.3 ft³/s (0.18 m³/s) on basis of slope-area measurement of peak flow; no flow for many days during 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8.2 ft³/s (0.23 m³/s) May 16, gage height, 3.34 ft (1.018 m); maximum gage height, 4.51 ft (1.375 m) Jan. 8 (backwater from ice); minimum daily discharge, 0.01 ft³/s (<0.001 m³/s) Oct. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.58	.22	.18	.07	.17	.21	3.7	3.0	4.2	.86	.38	.13
2	.58	.20	.17	.06	.18	.23	1.6	2.8	4.0	.69	.15	.11
3	.50	.26	.19	.06	.19	.25	1.4	3.2	4.2	.59	.13	.09
4	.34	.35	.22	.05	.21	.27	.55	3.7	4.4	.25	.13	.08
5	.42	.32	.21	.05	.20	.41	.64	2.8	3.8	.69	.11	.06
6	.42	.38	.19	.06	.21	.38	.25	3.7	4.0	.64	.08	.06
7	.01	.32	.16	.06	.22	.32	.69	5.6	3.5	.69	.08	.05
8	.05	.19	.14	.07	.23	.32	1.1	4.0	3.3	.64	.08	.05
9	.13	.12	.13	.06	.24	.35	.59	3.7	3.2	.64	.09	.08
10	.12	.07	.12	.05	.25	.32	1.7	3.8	3.5	.64	.13	.08
11	.12	.05	.13	.06	.26	.35	.19	5.4	3.7	.93	.09	.09
12	.15	.04	.14	.06	.27	.35	1.8	5.2	3.2	.80	.08	.15
13	.18	.04	.15	.06	.27	.35	4.4	4.5	2.6	.69	.17	.17
14	.21	.04	.16	.07	.25	.32	5.4	5.2	2.2	.41	1.9	.19
15	.21	.05	.18	.07	.25	.23	3.7	5.8	2.2	.59	1.7	.17
16	.23	.05	.17	.07	.21	.27	3.3	6.5	1.8	.55	.44	.13
17	.21	.05	.12	.06	.20	.74	1.8	7.6	1.7	.41	.25	.15
18	.23	.05	.08	.06	.17	1.4	2.5	7.0	1.7	.35	.44	.55
19	.21	.05	.06	.06	.14	2.6	1.9	6.1	1.8	.51	.41	.64
20	.23	.04	.05	.05	.11	4.0	3.5	5.4	1.9	.47	.27	.55
21	.29	.03	.04	.05	.10	3.6	2.4	5.4	1.8	.44	.21	.51
22	.29	.03	.04	.05	.09	3.0	2.2	5.2	1.7	.41	.19	.38
23	.28	.04	.05	.04	.10	1.5	1.7	5.4	1.5	.38	.19	.32
24	.27	.05	.05	.04	.12	1.1	1.4	5.4	1.4	.32	.19	.29
25	.29	.06	.06	.07	.13	.77	1.5	5.2	1.2	.21	.13	.27
26	.27	.10	.06	.12	.15	1.0	2.6	5.0	1.1	.21	.17	.29
27	.28	.18	.07	.13	.17	1.4	3.3	4.8	1.0	.19	.17	.25
28	.27	.22	.07	.13	.19	1.2	4.0	4.6	1.0	.17	.17	.27
29	.35	.22	.07	.14	---	1.3	3.5	4.4	1.0	.27	.17	.25
30	.51	.20	.08	.15	---	1.7	3.7	4.6	1.0	.27	.15	.27
31	.26	---	.08	.16	---	2.0	---	4.4	---	.19	.13	---
TOTAL	8.49	4.02	3.62	2.29	5.28	32.24	67.01	149.4	73.6	15.10	8.98	6.68
MEAN	.27	.13	.12	.074	.19	1.04	2.23	4.82	2.45	.49	.29	.22
MAX	.58	.38	.22	.16	.27	4.0	5.4	7.6	4.4	.93	1.9	.64
MIN	.01	.03	.04	.04	.09	.21	.19	2.8	1.0	.17	.08	.05
AC-FT	17	8.0	7.2	4.5	10	64	133	296	146	30	18	13

CAL YR 1977 TOTAL 202.48 MEAN .55 MAX 39 MIN .00 AC-FT 402
WTR YR 1978 TOTAL 376.71 MEAN 1.03 MAX 7.6 MIN .01 AC-FT 747

09216565 SALT WELLS CREEK NEAR SOUTH BAXTER, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to current year.

PERIOD OF DAILY RECORD.--
SUSPENDED SEDIMENT DISCHARGE: October 1976 to current year.

INSTRUMENTATION.--Automatic pumping sediment sampler since October 1976.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 14,000 mg/L Aug. 27, 1977; minimum daily mean, no flow for many days.
SEDIMENT LOADS: Maximum daily, 492 tons (446 tonnes) Aug. 26, 1977; minimum daily, 0 tons on many days during 1977.

EXTREMES FOR CURRENT YEAR.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 13,000 mg/L Aug. 14; minimum daily mean, 9 mg/L Sept. 10.
SEDIMENT LOADS: Maximum daily, 190 tons (172 tonnes) Apr. 14; minimum daily, 0 tons Sept. 3-11.

CORRECTIONS.--The date for the maximum daily mean concentration for water year 1977 was Aug. 27 rather than Aug. 24 as published in WDR WY-77-2.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)
SEP							
29...	1020	.11	1320	9.0	7	34	.01

09216565 SALT WELLS CREEK NEAR SOUTH BAXTER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
OCT											
16...	0750	.21	1100	8.4	1.5	5	11.2	1.8	560	300	100
20...	1250	.20	1360	--	7.0	8	--	--	--	--	--
31...	1505	.44	1300	--	4.0	30	--	--	--	--	--
NOV											
17...	0920	A.05	--	--	.0	15	--	--	--	--	--
27...	0915	A.18	1200	8.0	.0	40	12.4	2.8	610	320	110
DEC											
01...	1120	A.18	1300	--	.0	15	--	--	--	--	--
14...	1155	A.16	1330	--	.0	9	--	--	--	--	--
18...	0930	A.08	1400	8.0	.0	8	11.8	2.0	650	360	120
28...	1300	A.07	1500	--	.0	4	--	--	--	--	--
JAN											
12...	0950	A.06	1250	--	.5	3	--	--	--	--	--
19...	0930	A.06	1400	8.0	.0	2	9.7	5.7	660	350	120
27...	1105	A.13	1350	--	.5	6	--	--	--	--	--
FEB											
09...	1030	A.15	1320	--	.0	1	--	--	--	--	--
16...	0930	A.21	1100	8.0	.0	9	11.7	--	650	340	120
22...	1220	A.09	1420	--	.0	8	--	--	--	--	--
MAR											
07...	1130	.23	1110	--	.0	50	--	--	--	--	--
14...	1000	.38	1500	8.2	.0	65	11.4	3.1	670	370	120
16...	1100	.50	1400	--	.0	20	--	--	--	--	--
21...	1245	3.3	780	--	.0	2700	--	--	--	--	--
22...	1115	2.4	900	--	3.0	1700	--	--	--	--	--
31...	1120	1.7	920	--	6.5	1300	--	--	--	--	--
APR											
07...	1100	1.1	1080	--	7.0	400	--	--	--	--	--
11...	1015	E.14	950	--	9.5	260	--	--	--	--	--
19...	1345	.72	1000	--	12.0	100	--	--	--	--	--
25...	1130	1.2	730	--	9.5	160	--	--	--	--	--
29...	0930	3.5	900	8.4	5.0	250	10.0	2.6	430	160	83
MAY											
08...	1040	3.0	630	--	1.5	440	--	--	--	--	--
10...	1400	3.0	--	--	10.0	240	--	--	--	--	--
19...	1200	6.2	610	--	9.0	420	--	--	--	--	--
23...	1000	6.1	540	8.2	8.0	420	9.3	1.9	210	0	43
23...	1015	6.1	560	--	10.5	330	--	--	--	--	--
31...	1000	5.6	640	--	6.0	160	--	--	--	--	--
JUN											
08...	1025	3.0	720	--	11.5	110	--	--	--	--	--
14...	1110	2.2	750	--	13.5	90	--	--	--	--	--
17...	1000	1.7	750	8.1	13.0	70	8.9	1.4	290	36	52
21...	1030	1.7	780	--	13.5	50	--	--	--	--	--
28...	1010	.78	780	--	14.0	15	--	--	--	--	--
JUL											
06...	1040	.59	900	--	15.0	15	--	--	--	--	--
18...	1100	.32	1100	--	19.5	4	--	--	--	--	--
27...	1050	.11	1000	--	18.0	--	--	--	--	--	--
AUG											
01...	1200	.69	966	8.1	24.0	8	8.0	2.6	390	170	61
03...	1200	.20	1050	--	22.5	2	--	--	--	--	--
08...	0900	.10	1100	--	11.5	--	--	--	--	--	--
16...	1630	.51	1000	--	21.5	65	--	--	--	--	--
23...	1410	.18	1100	--	22.5	3	--	--	--	--	--
30...	1230	.18	1100	--	21.5	4	--	--	--	--	--
SEP											
03...	0830	.13	960	8.1	11.0	3	9.0	2.6	450	220	77
07...	1050	.05	1140	--	15.5	3	--	--	--	--	--
20...	0900	.80	1680	--	.0	60	--	--	--	--	--
28...	0930	.29	1010	8.3	7.0	3	9.8	1.5	410	170	68

A-Daily mean discharge.
E-Estimate.

09216565 SALT WELLS CREEK NEAR SOUTH BAXTER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)
OCT											
16...	75	79	1.5	6.1	310	1	260	450	16	.4	9.0
20...	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--
NOV											
17...	--	--	--	--	--	--	--	--	--	--	--
27...	82	110	1.9	6.0	360	0	300	480	19	.3	12
DEC											
01...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
18...	86	100	1.7	6.4	360	0	300	550	18	.5	11
28...	--	--	--	--	--	--	--	--	--	--	--
JAN											
12...	--	--	--	--	--	--	--	--	--	--	--
19...	87	99	1.7	6.2	370	0	300	530	15	.5	11
27...	--	--	--	--	--	--	--	--	--	--	--
FEB											
09...	--	--	--	--	--	--	--	--	--	--	--
16...	86	96	1.7	5.6	380	0	310	510	18	.4	12
22...	--	--	--	--	--	--	--	--	--	--	--
MAR											
07...	--	--	--	--	--	--	--	--	--	--	--
14...	91	120	2.0	7.9	370	0	300	560	16	.5	8.3
16...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--
APR											
07...	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--
29...	55	76	1.6	4.0	320	4	270	300	8.9	.2	15
MAY											
08...	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
23...	26	44	1.3	2.6	270	0	220	85	4.8	.1	16
23...	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--
JUN											
08...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
17...	39	59	1.5	3.8	310	0	250	160	7.7	.2	15
21...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
JUL											
06...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
AUG											
01...	58	82	1.8	5.9	270	0	220	310	13	.4	5.4
03...	--	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
SEP											
03...	62	80	1.6	6.0	280	0	230	350	12	.4	6.0
07...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
28...	59	80	1.7	4.5	290	0	240	320	11	.3	7.7

09216565 SALT WELLS CREEK NEAR SOUTH BAXTER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS NO3)	PHOS-PHORUS, TOTAL (MG/L AS P)
OCT										
16...	890	1.21	.50	.01	.02	.26	.28	.29	1.3	.02
20...	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--
NOV										
17...	--	--	--	--	--	--	--	--	--	--
27...	947	1.36	.48	.06	.05	.33	.38	.44	1.9	.06
DEC										
01...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
18...	1070	1.46	.23	.11	.22	.29	.51	.62	2.7	.01
28...	--	--	--	--	--	--	--	--	--	--
JAN										
12...	--	--	--	--	--	--	--	--	--	--
19...	1050	1.43	.17	.17	.21	.16	.37	.54	2.4	.02
27...	--	--	--	--	--	--	--	--	--	--
FEB										
09...	--	--	--	--	--	--	--	--	--	--
16...	1040	1.41	.59	.17	.08	.29	.37	.54	2.4	.03
22...	--	--	--	--	--	--	--	--	--	--
MAR										
07...	--	--	--	--	--	--	--	--	--	--
14...	1110	1.51	1.14	.25	.05	.60	.65	.90	4.0	.20
16...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--
APR										
07...	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
29...	704	.96	6.65	.21	.05	.76	.81	1.0	4.5	.47
MAY										
08...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
23...	355	.48	5.85	.43	.01	1.2	1.2	1.6	7.2	.58
23...	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--
JUN										
08...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
17...	490	.67	2.25	.01	.03	.72	.75	.76	3.4	.05
21...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
JUL										
06...	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
AUG										
01...	669	.91	1.25	.03	.00	.69	.69	.72	3.2	.04
03...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
SEP										
03...	732	1.00	.26	.02	.00	.46	.46	.48	2.1	.11
07...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
28...	694	.94	.54	.01	.02	.80	.82	.83	3.7	.05

09216565 SALT WELLS CREEK NEAR SOUTH BAXTER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)
OCT											
16...	0750	300	--	2	--	10	--	140	<10	--	20
NOV											
27...	0915	--	--	--	--	--	--	150	--	--	--
DEC											
18...	0930	--	--	--	--	--	--	170	--	--	--
JAN											
19...	0930	60	10	1	1	0	0	140	3	3	0
FEB											
16...	0930	--	--	--	--	--	--	150	--	--	--
MAR											
14...	1000	--	--	--	--	--	--	160	--	--	--
APR											
29...	0930	7400	--	7	--	0	--	110	7	--	0
MAY											
23...	1000	--	--	--	--	--	--	70	--	--	--
JUN											
17...	1000	--	--	--	--	--	--	100	--	--	--
AUG											
01...	1200	940	--	3	--	0	--	150	7	--	0
SEP											
03...	0830	--	--	--	--	--	--	140	--	--	--
28...	0930	--	--	--	--	--	--	130	--	--	--

DATE	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)
OCT											
16...	--	<10	--	840	60	<100	--	40	--	230	--
NOV											
27...	--	--	--	--	40	--	--	--	--	--	--
DEC											
18...	--	--	--	--	90	--	--	--	--	--	--
JAN											
19...	0	7	3	680	80	18	10	50	2500	460	440
FEB											
16...	--	--	--	--	60	--	--	--	--	--	--
MAR											
14...	--	--	--	--	110	--	--	--	--	--	--
APR											
29...	--	18	--	9300	200	17	--	20	--	240	--
MAY											
23...	--	--	--	--	110	--	--	--	--	--	--
JUN											
17...	--	--	--	--	140	--	--	--	--	--	--
AUG											
01...	--	9	--	1100	230	10	--	40	--	100	--
SEP											
03...	--	--	--	--	520	--	--	--	--	--	--
28...	--	--	--	--	190	--	--	--	--	--	--

09216565 SALT WELLS CREEK NEAR SOUTH BAXTER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT											
16...	.0	--	5	--	<50	--	2	--	--	20	--
NOV											
27...	--	--	--	--	--	--	--	--	--	--	--
DEC											
18...	--	--	--	--	--	--	--	--	--	--	--
JAN											
19...	.0	.0	5	5	8	4	1	1	.0	30	10
FEB											
16...	--	--	--	--	--	--	--	--	--	--	--
MAR											
14...	--	--	--	--	--	--	--	--	--	--	--
APR											
29...	.0	--	4	--	15	--	1	--	--	50	--
MAY											
23...	--	--	--	--	--	--	--	--	--	--	--
JUN											
17...	--	--	--	--	--	--	--	--	--	--	--
AUG											
01...	.0	--	11	--	6	--	1	--	--	30	--
SEP											
03...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--

DATE	TIME	TEMPER-ATURE (DEG C)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. FALL DIAM. % FINER THAN .500 MM
MAR										
21...	1245	.0	3.3	7730	69	53	74	92	100	--
22...	1115	3.0	2.4	4700	30	59	78	80	99	100
31...	1120	6.5	1.7	2900	13	58	77	81	99	100

DATE	TIME	TEMPER-ATURE (DEG C)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	NUMBER OF SAM-PLING POINTS	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM
MAY								
31...	1000	6.0	5.6	13	5	12	38	48
SEP								
20...	0900	.0	.80	9	1	12	83	97

DATE	BED MAT. FALL DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM
MAY							
31...	52	55	62	73	86	98	100
SEP							
20...	98	100	--	--	--	--	--

09216565 SALT WELLS CREEK NEAR SOUTH BAXTER, WY--Continued

SPECIFIC CONDUCTANCE (MICROMHUS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1300	1610	1310	1220			597	---	609	734	987	---
2	1270	1660	1300	1220			632	765	628	690	974	---
3	1280	1430	1260	1260			736	659	641	732	1060	---
4	1300	1350	1220	1280			849	637	655	696	1130	---
5	1330	1340	1290	1280			930	---	667	817	1140	---
6	1330	1280	1280	1280			988	---	687	859	1150	---
7	1290	1220	1280	1280			1070	---	698	887	1240	---
8	1310	1280	1260	1260			1040	681	692	939	889	1080
9	1210	1460	1330	1260			998	891	669	961	1040	1230
10	1300	1460	1370	1270			1020	920	613	956	1120	1220
11	---	1430	1360	1260			1010	780	681	960	931	1160
12	---	1370	1330	---			982	674	690	965	890	1180
13	531	1360	1330	---			928	694	711	955	1110	1170
14	1650	1380	1320	---			881	638	753	952	1210	1150
15	1230	1290	1250	---			870	580	771	959	1080	1140
16	1210	1310	1210	---			843	579	791	976	1000	1100
17	1220	1370	1220	---			827	593	798	1110	1070	1100
18	1220	1320	1240	---			843	621	809	1100	1070	1090
19	1240	1340	1250	---			911	589	779	1050	1150	1300
20	1320	1350	1270	---			759	587	752	1040	1150	1530
21	1340	1390	1260	---			704	576	798	1180	1120	1310
22	1300	1430	1310	---			691	574	797	1210	1170	1160
23	1290	1510	1420	---			713	590	793	1190	1250	1070
24	1300	1380	1570	---			729	614	807	1110	1110	1020
25	1270	1320	1590	---			795	---	743	1060	1060	1010
26	1280	1260	1570	---			793	---	658	953	1130	1010
27	1270	1290	1570	---			831	---	647	999	1090	1020
28	1270	1330	1540	---			570	---	739	1000	1120	1020
29	1250	1410	1600	---			460	659	793	1030	1110	1010
30	1250	1290	1430	---			---	658	785	1010	945	1010
31	1360	---	1330	---			---	623	---	980	---	---
MEAN	1270	1370	1350	1260			828	660	722	970	1080	1130

WTR YR 1978 MEAN 1060 MAX 1660 MIN 460

09216565 SALT WELLS CREEK NEAR SOUTH BAXTER, WY--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	15.0	.0	3.0	.0	.5	.0	.0	.0	.5	.0	.0	.0
2	16.0	.0	10.0	.0	.0	.0	.5	.0	.5	.0	.0	.0
3	18.5	3.0	8.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
4	18.5	.5	10.5	.5	.0	.0	.0	.0	.0	.0	.0	.0
5	16.5	4.0	10.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6	18.0	6.0	6.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	13.5	3.5	8.5	.0	.0	.0	.5	.5	.0	.0	.5	.0
8	15.0	1.5	.5	.0	.0	.0	.5	.0	.0	.0	.0	.0
9	14.5	.0	1.0	.0	.0	.0	.5	.0	.0	.0	.0	.0
10	10.0	.0	1.0	.0	.0	.0	.5	.5	.0	.0	.0	.0
11	11.0	.0	.5	.0	.0	.0	.5	.5	.0	.0	.5	.0
12	13.0	.0	1.0	.0	.0	.0	.5	.5	.0	.0	1.0	.0
13	12.5	.5	1.0	.0	.0	---	.5	.5	.5	.0	.0	.0
14	12.5	2.5	1.0	.0	.0	.0	.5	.5	.0	.0	.0	.0
15	13.5	2.0	.5	.0	.0	---	.5	.0	.0	.0	.0	.0
16	12.5	2.5	1.0	.0	.0	---	.5	.5	.0	.0	.0	.0
17	12.5	4.0	.5	.0	.0	.0	.5	.5	.0	.0	.0	.0
18	12.5	3.5	.0	.0	.0	.0	.5	.5	.0	.0	.5	.0
19	11.5	3.0	.5	.0	.0	.0	.5	.5	.0	.0	1.0	.0
20	8.5	4.0	.5	.0	.0	.0	.5	.5	.0	.0	.0	.0
21	9.0	2.5	.5	.0	.5	.0	.5	.5	.5	.0	5.0	.0
22	13.0	.5	.0	.0	.0	.0	.5	.5	.0	.0	3.5	.0
23	12.0	.0	.0	.0	.0	.0	.5	.5	.0	.0	4.5	.0
24	11.5	2.0	.0	.0	.0	.0	.5	.5	.5	.0	7.0	.0
25	14.5	.5	.0	.0	.0	.0	.5	.5	.0	.0	---	---
26	14.0	.0	.0	.0	.0	.0	.5	.5	.0	.0	---	---
27	12.5	.0	.0	.0	.0	.0	.5	.5	.0	.0	---	---
28	12.5	.5	.0	.0	.0	.0	1.0	.5	.0	.0	---	---
29	10.0	3.5	.0	.0	.0	.0	.5	.5	---	---	---	---
30	8.0	.0	.0	.0	.0	.0	.5	.5	---	---	---	---
31	4.5	.0	---	---	.0	.0	.5	.5	---	---	---	---
MONTH	18.5	.0	10.5	.0	.5	.0	1.0	.0	.5	.0	7.0	.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	11.0	4.0	8.5	5.5	21.5	6.0	24.0	11.0	25.0	11.0	25.0	5.5
2	11.5	2.5	12.5	5.0	20.0	7.5	23.0	8.0	26.5	9.0	26.5	5.5
3	9.5	.5	13.5	6.0	14.5	10.0	22.0	7.5	26.0	10.0	26.0	6.5
4	11.5	.0	9.5	4.5	16.0	8.0	23.5	7.0	28.0	9.5	27.0	7.5
5	13.5	2.0	5.5	2.5	19.5	9.0	25.5	7.5	30.0	8.0	24.5	8.0
6	15.5	.0	4.5	.5	24.0	8.5	22.0	9.5	27.5	11.0	23.0	8.0
7	8.5	1.5	5.0	.5	22.5	10.5	26.0	8.5	30.5	10.5	25.0	10.5
8	14.0	.0	8.0	.5	23.5	8.5	25.0	9.0	27.0	11.0	23.5	9.5
9	12.0	.0	13.0	2.5	22.0	8.5	27.0	10.5	29.0	11.0	22.0	5.5
10	11.5	.0	11.0	5.5	21.5	11.5	26.5	10.5	26.0	9.0	20.5	7.0
11	18.5	.0	12.0	5.5	23.0	8.5	25.5	12.5	25.0	9.0	16.0	4.5
12	13.5	.0	13.0	3.0	23.5	9.5	28.0	10.5	26.0	12.5	16.5	3.5
13	7.5	1.0	20.5	4.0	24.5	10.5	29.0	9.5	25.5	12.5	18.0	5.5
14	11.0	1.0	17.0	7.5	21.0	11.5	29.5	10.0	13.5	9.0	15.5	3.0
15	12.0	2.5	16.5	8.5	21.5	7.5	27.5	11.5	20.5	7.0	18.5	4.0
16	9.0	1.5	14.5	7.0	21.5	7.5	25.5	14.0	21.5	10.0	22.0	5.0
17	8.5	.0	9.0	5.0	23.5	7.5	29.5	12.5	21.0	9.0	10.0	5.5
18	12.0	.0	14.0	4.0	21.0	6.5	26.0	12.0	23.5	7.5	8.0	.5
19	12.0	.0	16.5	4.5	25.5	10.0	26.5	12.5	25.0	6.0	8.0	.0
20	14.5	.5	21.0	6.0	27.0	9.5	25.0	12.0	24.0	8.0	12.5	.0
21	5.5	.0	16.5	11.0	26.0	12.0	24.5	12.0	24.5	9.0	15.0	.0
22	11.5	.0	18.0	9.5	25.5	11.0	29.0	8.5	23.5	12.0	17.0	.5
23	15.0	1.5	14.5	9.0	24.5	10.0	29.0	10.0	22.5	8.0	19.0	2.5
24	16.0	1.5	15.5	5.5	24.0	12.0	29.5	8.0	22.5	5.5	20.5	3.5
25	11.5	4.5	16.5	4.0	23.5	9.5	28.5	9.0	23.0	4.5	20.5	5.0
26	10.5	5.0	16.5	4.5	24.0	7.5	30.0	9.5	24.5	5.0	17.5	4.0
27	8.0	3.5	18.0	5.0	22.5	8.0	29.0	9.0	25.0	4.5	20.0	3.0
28	8.0	4.0	20.5	6.0	21.5	9.5	24.5	11.5	24.0	6.5	19.5	4.5
29	8.0	4.5	18.5	6.5	23.0	11.5	29.0	13.5	27.0	5.0	19.0	5.0
30	9.0	6.5	16.0	5.0	24.5	11.5	28.5	10.0	25.5	4.5	18.0	2.5
31	---	---	20.0	4.0	---	---	24.0	9.5	22.5	9.5	---	---
MONTH	18.5	.0	21.0	.5	27.0	6.0	30.0	7.0	30.5	4.5	27.0	.0
YEAR	30.5	.0										

09216565 SALT WELLS CREEK NEAR SOUTH BAXTER, WY--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		OCTOBER			NOVEMBER			DECEMBER	
1	.58	212	.33	.22	118	.07	.18	105	.05
2	.58	212	.33	.20	113	.06	.17	102	.05
3	.50	193	.26	.26	132	.09	.19	109	.06
4	.34	153	.14	.35	157	.15	.22	118	.07
5	.42	174	.20	.32	148	.13	.21	115	.07
6	.42	174	.20	.38	164	.17	.19	109	.06
7	.01	40	.00	.32	148	.13	.16	98	.04
8	.05	61	.01	.19	109	.06	.14	90	.03
9	.13	87	.03	.12	83	.03	.13	87	.03
10	.12	83	.03	.07	67	.01	.12	83	.03
11	.12	83	.03	.05	61	.01	.13	87	.03
12	.15	94	.04	.04	58	.01	.14	90	.03
13	.18	105	.05	.04	58	.01	.15	94	.04
14	.21	115	.07	.04	58	.01	.16	98	.04
15	.21	115	.07	.05	61	.01	.18	105	.05
16	.23	122	.08	.05	61	.01	.17	102	.05
17	.21	115	.07	.05	61	.01	.12	83	.03
18	.23	122	.08	.05	61	.01	.08	70	.02
19	.21	115	.07	.05	61	.01	.06	64	.01
20	.23	122	.08	.04	58	.01	.05	61	.01
21	.29	140	.11	.03	54	.00	.04	58	.01
22	.29	140	.11	.03	54	.00	.04	58	.01
23	.28	137	.10	.04	58	.01	.05	61	.01
24	.27	134	.10	.05	61	.01	.05	61	.01
25	.29	140	.11	.06	64	.01	.06	64	.01
26	.27	134	.10	.10	76	.02	.06	64	.01
27	.28	137	.10	.18	105	.05	.07	67	.01
28	.27	214	.16	.22	118	.07	.07	67	.01
29	.35	157	.15	.22	118	.07	.07	67	.01
30	.51	196	.27	.20	113	.06	.08	70	.02
31	.26	132	.09	---	---	---	.08	70	.02
TOTAL	8.49	---	3.57	4.02	---	1.30	3.62	---	0.93

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		JANUARY			FEBRUARY			MARCH	
1	.07	67	.01	.17	102	.05	.21	115	.07
2	.06	64	.01	.18	105	.05	.23	122	.08
3	.06	64	.01	.19	109	.06	.25	128	.09
4	.05	61	.01	.21	115	.07	.27	134	.10
5	.05	61	.01	.20	113	.06	.41	172	.19
6	.06	64	.01	.21	115	.07	.38	164	.17
7	.06	64	.01	.22	118	.07	.32	148	.13
8	.07	67	.01	.23	122	.08	.32	148	.13
9	.06	64	.01	.24	125	.08	.35	157	.15
10	.05	61	.01	.25	128	.09	.32	148	.13
11	.06	64	.01	.26	132	.09	.35	157	.15
12	.06	64	.01	.27	134	.10	.35	157	.15
13	.06	64	.01	.27	134	.10	.35	157	.15
14	.07	67	.01	.25	128	.09	.32	148	.13
15	.07	67	.01	.25	128	.09	.23	122	.08
16	.07	67	.01	.21	115	.07	.27	134	.10
17	.06	64	.01	.20	113	.06	.74	244	.49
18	.06	64	.01	.17	102	.05	1.4	2280	8.6
19	.06	64	.01	.14	90	.03	2.6	5050	35
20	.05	61	.01	.11	79	.02	4.0	8850	96
21	.05	61	.01	.10	76	.02	3.6	7730	75
22	.05	61	.01	.09	73	.02	3.0	6100	49
23	.04	58	.01	.10	76	.02	1.5	2500	10
24	.04	58	.01	.12	83	.03	1.1	1670	5.0
25	.07	67	.01	.13	87	.03	.77	1050	2.2
26	.12	83	.03	.15	94	.04	1.0	1480	4.0
27	.13	87	.03	.17	102	.05	1.4	2280	8.6
28	.13	87	.03	.19	109	.06	1.2	1880	6.1
29	.14	90	.03	---	---	---	1.3	2080	7.3
30	.15	94	.04	---	---	---	1.7	2930	13
31	.16	98	.04	---	---	---	2.0	3620	20
TOTAL	2.29	---	0.45	5.28	---	1.65	32.24	---	342.29

09216565 SALT WELLS CREEK NEAR SOUTH BAXTER, WY--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		APRIL			MAY			JUNE	
1	3.7	8000	80	3.0	4190	34	4.2	431	4.9
2	1.6	2710	12	2.8	3690	28	4.0	872	9.4
3	1.4	2280	8.6	3.2	4170	36	4.2	1060	12
4	.55	690	1.0	3.7	4820	48	4.4	666	7.9
5	.64	830	1.4	2.8	3210	24	3.8	412	4.2
6	.25	250	.17	3.7	4360	44	4.0	451	4.9
7	.69	910	1.7	5.6	6910	104	3.5	353	3.3
8	1.1	1670	5.0	4.0	4240	46	3.3	343	3.1
9	.59	750	1.2	3.7	3610	36	3.2	343	3.0
10	1.7	2930	13	3.8	3490	36	3.5	333	3.1
11	.19	175	.09	5.4	5130	75	3.7	529	5.3
12	1.8	3140	15	5.2	4540	64	3.2	353	3.0
13	4.4	10000	119	4.5	3480	42	2.6	343	2.4
14	5.4	13000	190	5.2	3840	54	2.2	314	1.9
15	3.7	8000	80	5.8	4020	63	2.2	343	2.0
16	3.3	6900	61	6.5	4180	73	1.8	255	1.2
17	1.8	3140	15	7.6	4570	94	1.7	245	1.1
18	2.5	4800	32	7.0	3570	67	1.7	194	.89
19	1.9	3380	17	6.1	1030	17	1.8	194	.94
20	3.5	7400	70	5.4	970	14	1.9	225	1.2
21	2.4	4420	29	5.4	1160	17	1.8	214	1.0
22	2.2	3850	23	5.2	1120	16	1.7	162	.74
23	1.7	2680	12	5.4	1100	16	1.5	139	.56
24	1.4	2020	7.6	5.4	1130	16	1.4	147	.56
25	1.5	2140	8.7	5.2	892	13	1.2	143	.46
26	2.6	4190	29	5.0	784	11	1.1	137	.41
27	3.3	5530	49	4.8	706	9.1	1.0	122	.33
28	4.0	6840	74	4.6	627	7.8	1.0	98	.26
29	3.5	5510	52	4.4	539	6.4	1.0	229	.62
30	3.7	5730	57	4.6	470	5.8	1.0	172	.46
31	---	---	---	4.4	363	4.3	---	---	---
TOTAL	67.01	---	1064.46	149.4	---	1121.4	73.6	---	81.13

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		JULY			AUGUST			SEPTEMBER	
1	.86	82	.19	.38	59	.06	.13	23	.01
2	.69	71	.13	.15	37	.01	.11	22	.01
3	.59	57	.09	.13	34	.01	.09	16	.00
4	.25	35	.02	.13	44	.02	.08	15	.00
5	.69	235	.44	.11	45	.01	.06	16	.00
6	.64	83	.14	.08	47	.01	.06	21	.00
7	.69	80	.15	.08	48	.01	.05	17	.00
8	.64	71	.12	.08	92	.02	.05	14	.00
9	.64	78	.13	.09	64	.02	.08	17	.00
10	.64	49	.08	.13	82	.03	.08	9	.00
11	.93	73	.18	.09	140	.03	.09	10	.00
12	.80	80	.17	.08	100	.02	.15	32	.01
13	.69	86	.16	.17	123	.06	.17	70	.03
14	.41	83	.09	1.9	424	2.2	.19	30	.02
15	.59	108	.17	1.7	265	1.2	.17	65	.03
16	.55	93	.14	.44	102	.12	.13	90	.03
17	.41	64	.07	.25	73	.05	.15	50	.02
18	.35	78	.07	.44	82	.10	.55	138	.20
19	.51	191	.26	.41	83	.09	.64	110	.19
20	.47	378	.48	.27	76	.06	.55	100	.15
21	.44	632	.75	.21	61	.03	.51	48	.07
22	.41	317	.35	.19	49	.03	.38	30	.03
23	.38	53	.05	.19	37	.02	.32	23	.02
24	.32	216	.19	.19	41	.02	.29	20	.02
25	.21	24	.01	.13	43	.02	.27	18	.01
26	.21	13	.01	.17	46	.02	.29	20	.02
27	.19	42	.02	.17	44	.02	.25	16	.01
28	.17	75	.03	.17	34	.02	.27	18	.01
29	.27	50	.04	.17	20	.01	.25	16	.01
30	.27	48	.03	.15	15	.01	.27	18	.01
31	.19	50	.03	.13	22	.01	---	---	---
TOTAL	15.10	---	4.79	8.98	---	4.34	6.68	---	0.91
YEAR	376.71		2627.22						

09216570 GAP CREEK ABOVE BEANS SPRING CREEK, NEAR SOUTH BAXTER, WY

LOCATION.--Lat 41°11'56", long 109°02'59", in SE¼NW¼NE¼ sec.18, T.14 N., R.103 W., Sweetwater County, Hydrologic Unit 14040105, at bridge on county road, 100 ft (30 m) upstream from Beans Spring Creek, and 11.7 mi (18.7 km) southeast of South Baxter.

DRAINAGE AREA.--22.0 mi^2 (57.0 km^2).

PERIOD OF RECORD.--December 1975 to May 1976, May 1978 (discontinued).

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
MAY 10...	1130	.43	4000	10.0	4	43	.05

09216572 BEANS SPRING CREEK NEAR SOUTH BAXTER, WY

LOCATION.--Lat 41°09'43", long 109°04'29", in SE¼NE¼SW¼ sec.25, T.14 N., R.104 W., Sweetwater County, Hydrologic Unit 14040105, at culvert on county road, 1.4 mi (2.3 km) upstream from Little Basin Creek, 3.5 mi (5.6 km) upstream from mouth, and 14.0 mi (22.5 km) south of South Baxter.

DRAINAGE AREA.--4.92 mi^2 (12.7 km^2).

PERIOD OF RECORD.--Water years 1975 to June 1976, May 1978 (discontinued).

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
MAY 10...	1210	.37	850	11.0	2	52	.05

09216574 BEANS SPRING CREEK AT MOUTH, NEAR SOUTH BAXTER, WY

LOCATION.--Lat 41°11'57", long 109°03'02", in SE¼NW¼NE¼ sec.18, T.14 N., R.103 W., Sweetwater County, Hydrologic Unit 14040105, 100 ft (30 m) upstream from bridge on county road, 150 ft (46 m) upstream from mouth, and 11.7 mi (18.7 km) southeast of South Baxter.

DRAINAGE AREA.--13.1 mi^2 (33.9 km^2).

PERIOD OF RECORD.--February to August 1976, May to August 1978 (discontinued).

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
MAY 10...	1150	1.1	1100	8.0	80	284	.84
JUN 21...	1215	.31	510	17.0	4	20	.02
JUL 18...	0950	.25	650	13.5	15	23	.02
AUG 03...	1045	.18	550	14.0	5	60	.03

09216576 GAP CREEK BELOW BEANS SPRING CREEK, NEAR SOUTH BAXTER, WY

LOCATION.--Lat 41°12'25", long 109°03'09", in NW¼NW¼SE¼ sec.7, T.14 N., R.103 W., Sweetwater County, Hydrologic Unit 14040105, at former gaging station, 0.1 mi (0.2 km) upstream from bridge on county road, 0.5 mi (0.8 km) south of Titsworth Springs, 0.7 mi (1.1 km) downstream from Beans Spring Creek, 12 mi (19 km) south of South Baxter, and 28 mi (45 km) south of Rock Springs.

DRAINAGE AREA.--35.9 mi^2 (93.0 km^2).

PERIOD OF RECORD.--Water years 1975 to September 1978 (discontinued).

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
MAY							
10...	1015	4.3	2000	7.5	85	298	3.5
JUN							
21...	1150	1.7	460	18.0	9	34	.16
JUL							
18...	0935	1.7	790	13.0	6	16	.07
AUG							
03...	1100	1.7	560	17.0	3	18	.08

09216695 NO NAME CREEK NEAR ROCK SPRINGS, WY

LOCATION.--Lat 41°28'54", long 108°58'17", in SW¼SW¼NE¼ sec.1, T.17 N., R.103 W., Sweetwater County, Hydrologic Unit 14040105, 700 ft (214 m) upstream from mouth and 15 mi (24 km) southeast of Rock Springs.

DRAINAGE AREA.--18.2 mi^2 (47.1 km).

PERIOD OF RECORD.--Water years 1975 to September 1978 (discontinued).

REMARKS.--Peak-flow information also collected at this site.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
AUG				
13...	1800	52	81000	11400

09216750 SALT WELLS CREEK NEAR SALT WELLS, WY

LOCATION.--Lat 41°37'50", long 108"59'18", in NE¼NW¼NE¼ sec.14, T.19 N., R.103 W., Sweetwater County, Hydrologic Unit 14040105, on right bank 1.7 mi (2.7 km) south of Salt Wells, 3.0 mi (4.8 km) upstream from mouth, and 12 mi (19 km) east of Rock Springs.

DRAINAGE AREA.--526 mi² (1,362 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1976 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,340 ft (1,932 m), from topographic map.

REVISED RECORD.--WDR WY-77-2: 1976(M).

REMARKS.--Records poor. No diversion above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,650 ft³/s (46.7 m³/s), revised, Aug. 1, 1976, gage height, 8.80 ft (2.682 m), from rating curve extended above 820 ft³/s (23.2 m³/s) on basis of slope-area measurement of peak flow; no flow for many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 87 ft³/s (2.46 m³/s) Sept. 18, gage height, 3.14 ft (0.957 m); no flow for many days.

REVISIONS.--The maximum discharge for the 1976 water year has been revised to 1,650 ft³/s (46.7 m³/s) Aug. 1, 1976, gage height, 8.80 ft (2.682 m), superseding figure published in the report for 1976, 1977.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.71	11	12	2.8	.00	.00	.00
2	.00	.00	.00	.00	.00	.20	17	6.6	2.8	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	20	4.7	2.8	.00	.00	.00
4	.00	.00	.00	.00	.00	.50	13	3.3	8.2	.00	.00	.00
5	.00	.00	.00	.00	.00	1.0	9.4	4.7	11	.00	.00	.00
6	1.6	.00	.00	.00	.00	2.0	5.6	9.9	8.4	.00	.00	.00
7	1.2	.00	.00	.00	.00	3.0	4.7	18	3.0	.00	.00	.00
8	.05	.00	.00	.00	.00	4.0	1.9	19	1.9	.00	.00	.00
9	.00	.00	.00	.00	.00	5.0	2.6	14	1.2	.00	.00	.00
10	.00	.00	.00	.00	.00	6.0	1.7	10	.83	.00	.00	.00
11	.00	.00	.00	.00	.00	10	1.2	9.0	.56	.00	.00	.00
12	.00	.00	.00	.00	.00	8.0	.74	15	.49	.00	.00	.00
13	.00	.00	.00	.00	.00	5.8	.42	12	.49	.00	6.5	.00
14	.00	.00	.00	.00	.00	4.0	.65	6.6	.42	.00	7.5	.00
15	.00	.00	.00	.00	.00	3.5	.74	3.6	.25	.00	9.4	.00
16	.00	.00	.00	.00	.00	3.1	1.2	3.0	.20	.00	.48	.00
17	.00	.00	.00	.00	.00	5.4	1.9	6.3	.01	.34	.00	.00
18	.00	.00	.00	.00	.00	4.3	1.5	11	.00	.10	.00	48
19	.00	.00	.00	.00	.00	2.9	1.1	8.2	.00	.01	.00	5.4
20	.00	.00	.00	.00	.00	7.0	1.1	12	.00	.00	.00	1.2
21	.00	.00	.00	.00	.00	18	.74	11	.00	.00	.00	2.7
22	.00	.00	.00	.00	.00	25	.65	7.0	.00	.00	6.7	.08
23	.00	.00	.00	.00	.00	25	.42	5.6	.00	.00	.25	.00
24	.00	.00	.00	.00	.00	14	.42	4.4	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	9.4	.42	4.1	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	6.3	.74	3.3	.00	.00	.00	.00
27	.00	.00	.00	.00	5.7	4.4	1.4	3.0	.00	.00	.00	.00
28	.00	.00	.00	.00	1.6	6.3	3.8	2.8	.00	.00	.00	.00
29	.00	.00	.00	.00	---	8.2	9.4	2.8	.00	.00	.00	.00
30	.00	.00	.00	.00	---	7.4	24	3.0	.00	.00	.00	.00
31	.00	---	.00	.00	---	7.4	---	2.8	---	.00	.00	---
TOTAL	2.85	.00	.00	.00	7.30	207.01	139.44	238.7	45.35	.45	30.83	57.38
MEAN	.092	.000	.000	.000	.26	6.70	4.65	7.70	1.51	.015	.99	1.91
MAX	1.6	.00	.00	.00	5.7	25	24	19	11	.34	9.4	48
MIN	.00	.00	.00	.00	.00	.00	.42	2.8	.00	.00	.00	.00
AC-FT	5.7	.00	.00	.00	14	412	277	473	90	.9	61	114

CAL YR 1977 TOTAL 1408.66 MEAN 3.86 MAX 401 MIN .00 AC-FT 2790
WTR YR 1978 TOTAL 730.11 MEAN 2.00 MAX 48 MIN .00 AC-FT 1450

09216750 SALT WELLS CREEK NEAR SALT WELLS, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year 1976 to current year.

REMARKS.--No flow observed Oct. 15, Nov. 27, Dec. 17, Jan. 19, Feb. 16, June 17, Aug. 1, Sept. 4, 28.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
MAR											
14...	1800	A4.0	2800	8.2	.5	2000	10.6	4.3	1000	850	190
18...	1205	7.4	3600	--	3.5	2300	--	--	--	--	--
21...	1400	16	3000	--	6.5	5600	--	--	--	--	--
23...	1015	27	2100	--	3.0	8100	--	--	--	--	--
APR											
29...	1350	9.9	4000	8.6	13.0	3000	8.8	3.1	1300	1100	180
MAY											
04...	1715	3.6	2300	--	10.5	700	--	--	--	--	--
11...	1600	5.6	2590	--	12.5	1600	--	--	--	--	--
18...	1100	13	1200	--	7.5	2500	--	--	--	--	--
23...	1500	5.0	1900	--	16.0	1400	--	--	--	--	--
23...	1545	5.0	1950	8.5	15.0	1400	8.0	2.3	710	480	120
JUN											
02...	1110	2.8	1800	--	11.5	500	--	--	--	--	--
05...	1100	9.0	1600	--	13.0	9300	--	--	--	--	--
AUG											
23...	1500	.02	2200	--	24.0	45	--	--	--	--	--
SEP											
18...	1030	36	420	--	3.0	5800	--	--	--	--	--

A-Daily mean discharge.

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)
MAR											
14...	130	300	4.1	14	190	0	160	1200	200	.6	4.0
18...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
APR											
29...	210	430	5.2	17	290	3	240	1600	260	.5	6.2
MAY											
04...	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
23...	100	190	3.1	10	280	3	230	750	94	1.9	7.7
JUN											
02...	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--
AUG											
23...	--	--	--	--	--	--	--	--	--	--	--
SEP											
18...	--	--	--	--	--	--	--	--	--	--	--

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS NO3)	PHOS-PHORUS, TOTAL (MG/L AS P)
MAR										
14...	2130	2.90	23.0	.38	.12	1.9	2.0	2.4	11	2.7
18...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--
APR										
29...	2850	3.88	76.2	.50	.11	5.8	5.9	6.4	28	3.2
MAY										
04...	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--
23...	1420	1.93	19.2	.43	.08	3.3	3.4	3.8	17	1.3
JUN										
02...	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--
AUG										
23...	--	--	--	--	--	--	--	--	--	--
SEP										
18...	--	--	--	--	--	--	--	--	--	--

09216750 SALT WELLS CREEK NEAR SALT WELLS, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)
MAR											
14...	1800	--	10	12	1	0	0	570	0	1	60
APR											
29...	1350	250	--	10	--	0	--	800	2	--	80
MAY											
23...	1545	--	--	--	--	--	--	420	--	--	--

DATE	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)
MAR											
14...	0	79	5	57000	70	30	3	230	150	1500	10
APR											
29...	--	130	--	100000	240	77	--	310	--	2100	--
MAY											
23...	--	--	--	--	130	--	--	--	--	--	--

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)
MAR											
14...	.1	.0	4	4	25	0	9	1	.0	380	10
APR											
29...	.0	--	12	--	60	--	3	--	--	450	--
MAY											
23...	--	--	--	--	--	--	--	--	--	--	--

09216750 SALT WELLS CREEK NEAR SALT WELLS, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	TEMPER-ATURE (DEG C)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM
MAR									
18...	1205	3.5	7.4	4560	91	71	96	100	--
21...	1400	6.5	16	12900	557	56	86	99	100
23...	1015	3.0	27	19800	1440	61	89	99	100
MAY									
04...	1715	10.5	3.6	1440	14	--	--	--	--
11...	1600	12.5	5.6	3040	46	75	98	100	--
18...	1100	7.5	13	5820	204	63	85	95	100
23...	1500	16.0	5.0	2260	31	83	99	100	--
JUN									
02...	1110	11.5	2.8	880	6.7	--	--	--	--
05...	1100	13.0	9.0	16000	389	67	98	99	100
AUG									
23...	1500	24.0	.02	176	.01	--	--	--	--
SEP									
18...	1030	3.0	36	10900	1060	70	97	100	--

DATE	TIME	TEMPER-ATURE (DEG C)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	NUMBER OF SAM-PLING POINTS	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM
JUN								
02...	1110	11.5	2.8	16	74	90	97	99
SEP								
18...	1030	3.0	36	10	87	92	95	97

DATE	BED MAT. FALL DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM
JUN							
02...	100	--	--	--	--	--	--
SEP							
18...	97	98	98	98	98	98	100

09216810 KILLPECKER CREEK AT ROCK SPRINGS, WY

LOCATION.--Lat 41°35'56", long 109°13'54", in NW¼SW¼NW¼ sec.26, T.19 N., R.105 W., Sweetwater County, Hydrologic Unit 14040105, 0.6 mi (1.0 km) downstream from Interstate Highway 80, 0.8 mi (1.3 km) upstream from mouth, and 1.2 mi (1.9 km) northwest of Rock Springs.

PERIOD OF RECORD.--Water years 1975 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
OCT												
15...	1530	E.10	>8000	8.2	16.0	4	7.5	2600	2900	2400	320	510
NOV												
28...	1600	E.40	5000	8.0	1.0	60	10.4	K6000	1200	920	150	200
DEC												
20...	0800	E.20	>8000	7.6	.0	45	10.6	4600	3300	2500	380	570
JAN												
19...	1630	E.05	>8000	7.6	.0	25	6.4	K250	3300	2700	340	600
FEB												
16...	1515	E.10	>8000	7.7	.5	15	8.5	2300	2400	1900	270	430
MAR												
19...	0730	E.30	3500	7.8	.5	600	9.7	K250	700	450	97	110
APR												
29...	1530	E.20	>8000	8.8	18.0	4	14.5	K400	2600	2200	300	460
MAY												
24...	0810	E.50	7500	9.0	6.0	250	9.7	K4600	910	66	84	170
JUN												
17...	1530	E.10	>8000	8.9	25.0	4	17.0	K250	2900	2600	140	620
AUG												
01...	1520	E.20	>8000	7.9	26.0	2	9.8	1600	2500	2000	190	480
SEP												
03...	1300	E.10	>8000	8.0	20.0	15	11.2	420	1600	1200	150	290
28...	1350	E.20	8000	8.0	17.0	20	10.0	K160	1800	1400	230	300

E-Estimate.

K-Results based on colony count outside the acceptable range (non-ideal colony count).

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
OCT											
15...	1300	11	72	650	0	530	3100	1300	1.0	7.9	6930
NOV											
28...	770	9.7	27	340	0	280	1300	840	.7	4.8	3460
DEC											
20...	1600	12	81	930	0	760	3500	1600	.0	12	8210
JAN											
19...	1500	11	78	730	0	600	3400	1900	.8	11	8190
FEB											
16...	1400	12	61	620	0	510	2500	1600	.8	10	6580
MAR											
19...	500	8.3	4.0	300	0	250	810	430	.7	5.7	2110
APR											
29...	1300	11	96	490	14	430	3100	1400	.9	4.3	6920
MAY											
24...	1400	20	33	840	93	840	2100	690	2.0	.3	4990
JUN											
17...	1900	15	91	400	1	330	4200	1900	.8	1.3	9050
AUG											
01...	1400	12	110	520	0	430	3000	1600	.9	3.9	7040
SEP											
03...	1900	21	100	500	0	410	2800	1800	.8	1.9	7290
28...	1000	10	42	500	0	410	2000	1200	.8	5.1	5030

09216810 KILLPECKER CREEK AT ROCK SPRINGS, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS NO3)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C)
OCT 15...	9.42	1.87	.65	.95	1.3	2.2	2.9	13	.09	18	.6
NOV 28...	4.71	3.74	1.5	1.0	2.6	3.6	5.1	23	.41	--	--
DEC 20...	11.2	4.43	.96	2.3	2.2	4.5	5.5	24	.34	--	--
JAN 19...	11.1	1.11	1.0	2.8	1.2	4.0	5.0	22	.18	--	--
FEB 16...	8.95	1.78	.93	2.0	2.1	4.1	5.0	22	.34	--	--
MAR 19...	2.87	1.71	.43	.86	2.7	3.6	4.0	18	1.2	--	--
APR 29...	9.41	3.74	.57	.09	1.8	1.9	2.5	11	.17	21	1.2
MAY 24...	6.79	6.74	.73	.38	3.3	3.7	4.4	20	1.7	--	--
JUN 17...	12.3	2.44	.11	.21	2.4	2.6	2.7	12	.04	--	--
AUG 01...	9.57	3.80	.15	.04	4.5	4.5	4.7	21	.32	--	--
SEP 03...	9.91	1.97	.10	.08	2.1	2.2	2.3	10	.10	--	--
28...	6.84	2.72	.50	.22	1.5	1.7	2.2	9.7	.33	--	--

DATE	TIME	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)	ALUM-INUM, SUS-PENDED RECOV. (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS-PENDED TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE)	BERYL-LIUM, SUS-PENDED RECOV. (UG/L AS BE)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)
OCT 15...	1530	50	30	20	2	2	0	0	0	10	490	10
NOV 28...	1600	--	--	--	--	--	--	--	--	--	1100	--
DEC 20...	0800	--	--	--	--	--	--	--	--	--	2700	--
JAN 19...	1630	--	--	--	--	--	--	--	--	--	2500	--
FEB 16...	1515	--	--	--	--	--	--	--	--	--	2000	--
MAR 19...	0730	--	--	--	--	--	--	--	--	--	680	--
APR 29...	1530	260	260	0	2	1	1	0	0	0	2600	3
MAY 24...	0810	--	--	--	--	--	--	--	--	--	2000	--
JUN 17...	1530	--	--	--	--	--	--	--	--	--	3300	--
AUG 01...	1520	--	--	--	--	--	--	--	--	--	2700	--
SEP 03...	1300	--	--	--	--	--	--	--	--	--	3200	--
28...	1350	--	--	--	--	--	--	--	--	--	1800	--

DATE	CADMIUM SUS-PENDED RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, SUS-PENDED RECOV. (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, SUS-PENDED RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB)
OCT 15...	5	5	10	0	20	10	6	4	1100	70	<100	<73
NOV 28...	--	--	--	--	--	--	--	--	--	80	--	--
DEC 20...	--	--	--	--	--	--	--	--	--	2400	--	--
JAN 19...	--	--	--	--	--	--	--	--	--	1300	--	--
FEB 16...	--	--	--	--	--	--	--	--	--	630	--	--
MAR 19...	--	--	--	--	--	--	--	--	--	100	--	--
APR 29...	0	4	10	10	0	8	2	6	1300	40	11	9
MAY 24...	--	--	--	--	--	--	--	--	--	200	--	--
JUN 17...	--	--	--	--	--	--	--	--	--	140	--	--
AUG 01...	--	--	--	--	--	--	--	--	--	320	--	--
SEP 03...	--	--	--	--	--	--	--	--	--	460	--	--
28...	--	--	--	--	--	--	--	--	--	260	--	--

09216810 KILLPECKER CREEK AT ROCK SPRINGS, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)	LITHIUM SUS-PENDED RECOV-ERABLE (UG/L AS LI)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO)	MOLYB-DENUM, SUS-PENDED RECOV. (UG/L AS MO)
OCT												
15...	27	450	10	440	2400	600	1800	.0	.0	.0	6	0
NOV												
28...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
20...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
19...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
16...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
19...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
29...	2	470	10	460	1200	100	1100	.0	.0	.0	10	1
MAY												
24...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
17...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
01...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
03...	--	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, SUS-PENDED RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, SUS-PENDED TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT											
15...	7	50	34	16	2	1	1	9.0	40	20	20
NOV											
28...	--	--	--	--	--	--	--	--	--	--	--
DEC											
20...	--	--	--	--	--	--	--	--	--	--	--
JAN											
19...	--	--	--	--	--	--	--	--	--	--	--
FEB											
16...	--	--	--	--	--	--	--	--	--	--	--
MAR											
19...	--	--	--	--	--	--	--	--	--	--	--
APR											
29...	9	14	10	4	1	0	1	9.0	60	50	10
MAY											
24...	--	--	--	--	--	--	--	--	--	--	--
JUN											
17...	--	--	--	--	--	--	--	--	--	--	--
AUG											
01...	--	--	--	--	--	--	--	--	--	--	--
SEP											
03...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--

09216880 BITTER CREEK BELOW LITTLE BITTER CREEK, NEAR KANDA, WY

LOCATION.--Lat 41°33'00", long 109°18'15", in NW¼SE¼SW¼ sec.7, T.18 N., R.105 W., Sweetwater County, Hydrologic Unit 14040105, at bridge on State Highway 373, 2.0 mi (3.2 km) east of Kanda, and 5.0 mi (8.0 km) west of Rock Springs.

PERIOD OF RECORD.--Water years 1975 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	SAMP-LING DEPTH (FT)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	HARD-NESS (MG/L AS CACO3)
OCT										
15...	1230	--	E.60	2400	8.1	9.5	8	8.4	52000	490
DEC										
02...	0700	--	E2.0	3300	7.9	.0	15	8.8	K1200000	780
20...	0910	--	E2.0	2300	7.8	.0	10	5.3	630000	530
JAN										
22...	1700	--	E1.0	4000	7.8	.0	5	--	1100000	630
FEB										
16...	1615	--	E.50	3200	7.7	.0	10	5.7	230000	610
MAR										
18...	1720	--	14	2700	8.3	9.5	600	8.5	120000	730
APR										
29...	1700	--	19	6000	8.6	17.0	70	7.4	100000	1500
MAY										
28...	0900	--	8.0	3500	8.3	8.0	30	8.4	460000	790
JUN										
17...	1700	--	E1.9	3500	9.2	24.0	3	17.2	K6000	400
26...	1745	1.0	E5.0	2300	9.2	26.0	6	15.4	--	290
AUG										
01...	1700	--	E.30	4200	8.8	26.0	1	16.0	670000	740
05...	1030	--	2.0	1900	8.6	13.0	2	10.4	--	250
SEP										
03...	1420	--	1.6	2500	8.9	25.0	15	17.2	310000	370
28...	1445	--	2.2	3100	8.2	19.0	6	8.4	1700000	450

E-Estimate.
K-Results based on colony count outside the acceptable range (non-ideal colony count).

DATE	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)
OCT										
15...	230	86	66	370	7.3	15	310	0	250	550
DEC										
02...	380	130	110	540	8.4	18	490	0	400	930
20...	120	98	69	440	8.3	18	500	0	410	550
JAN										
22...	190	97	94	620	11	21	530	0	430	700
FEB										
16...	190	100	87	610	11	19	510	0	420	710
MAR										
18...	510	110	110	310	5.0	10	260	0	210	910
APR										
29...	1100	190	250	840	9.4	23	440	0	360	1800
MAY										
28...	440	120	120	530	8.2	16	430	0	350	980
JUN										
17...	100	68	57	500	11	17	330	19	300	510
26...	290	48	41	460	12	16	--	0	--	400
AUG										
01...	500	100	120	650	10	21	300	0	250	950
05...	24	49	32	300	8.2	15	280	0	230	230
SEP										
03...	170	66	49	380	8.6	18	240	0	200	420
28...	140	80	60	460	9.5	16	380	0	310	540

09216880 BITTER CREEK BELOW LITTLE BITTER CREEK, NEAR KANDA, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)
OCT										
15...	330	.8	8.1	1580	2.15	2.56	.57	--	.06	--
DEC										
02...	450	.9	7.7	2430	3.30	13.1	1.7	--	23	--
20...	400	.9	12	1840	2.50	9.94	.73	--	28	--
JAN										
22...	650	.8	14	2460	3.35	--	.26	--	22	--
FEB										
16...	580	.9	12	2370	3.22	3.20	.29	--	1.7	--
MAR										
18...	190	.6	6.0	1780	2.42	67.3	.61	--	1.8	--
APR										
29...	670	.8	5.1	4000	5.44	205	.14	--	2.9	--
MAY										
28...	400	.7	10	2390	3.25	51.6	.48	--	7.2	--
JUN										
17...	480	.8	6.2	1820	2.48	9.34	1.1	--	13	--
26...	450	.7	5.2	--	--	--	--	1.5	--	9.4
AUG										
01...	710	.8	7.9	2710	3.69	2.20	.80	--	1.4	--
05...	330	.6	9.4	1130	1.54	6.10	--	.27	--	9.2
SEP										
03...	380	.6	8.7	1440	1.96	6.42	.24	--	12	--
28...	470	.7	8.3	1820	2.48	10.8	.05	--	14	--

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)
OCT										
15...	--	19	--	19	--	20	87	12	--	--
DEC										
02...	--	3.0	--	26	--	28	120	7.1	--	--
20...	--	.00	--	28	--	29	130	12	--	--
JAN										
22...	--	.00	--	4.8	--	5.1	22	6.6	--	--
FEB										
16...	--	18	--	20	--	20	90	9.7	--	--
MAR										
18...	--	2.1	--	3.9	--	4.5	20	2.3	--	--
APR										
29...	--	2.0	--	4.9	--	5.0	22	2.2	--	--
MAY										
28...	--	2.3	--	9.5	--	10	44	3.3	--	--
JUN										
17...	--	3.0	--	16	--	17	76	6.0	--	--
26...	12	--	3.6	--	13	--	--	6.1	3.1	2.7
AUG										
01...	--	5.9	--	7.3	--	8.1	36	3.2	--	--
05...	12	--	2.8	--	12	--	--	7.5	6.8	5.0
SEP										
03...	--	4.0	--	16	--	16	72	7.9	--	--
28...	--	5.0	--	19	--	19	84	8.2	--	--

09216880 BITTER CREEK BELOW LITTLE BITTER CREEK, NEAR KANDA, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CARBON, ORGANIC SUSPENDED TOTAL (MG/L AS C)	PHYTOPLANKTON, TOTAL (CELLS PER ML)	INVERTEBRATES, BENTHIC WET WT. (G/SQ METER)	BIOMASS CHLOROPHYLL RATIO PLANKTON (UNITS)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)
OCT										
15...	--	15	3.7	--	--	--	--	--	--	--
DEC										
02...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
JAN										
22...	--	--	--	--	--	--	--	--	--	--
FEB										
16...	--	--	--	--	--	--	--	--	--	--
MAR										
18...	--	--	--	--	--	--	--	--	--	--
APR										
29...	--	11	3.1	--	--	--	--	--	--	--
MAY										
28...	--	--	--	--	--	--	--	--	--	--
JUN										
17...	--	--	--	--	--	--	--	--	--	--
26...	8.3	--	--	130000	.0	9248	14.9	3.77	--	--
AUG										
01...	--	--	--	--	--	--	--	--	--	--
05...	15	--	--	420	1.2	3017	41.0	9.45	23	.12
SEP										
03...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--

DATE	TIME	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, SUSPENDED RECOV. (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUSPENDED TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	BERYLLIUM, SUSPENDED RECOV. (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)
OCT												
15...	1230	130	120	10	7	1	6	0	0	0	850	10
DEC												
02...	0700	--	--	--	--	--	--	--	--	--	800	--
20...	0910	--	--	--	--	--	--	--	--	--	840	--
JAN												
22...	1700	--	--	--	--	--	--	--	--	--	990	--
FEB												
16...	1615	--	--	--	--	--	--	--	--	--	870	--
MAR												
18...	1720	--	--	--	--	--	--	--	--	--	530	--
APR												
29...	1700	2000	--	0	250	0	250	0	0	0	1000	2
MAY												
28...	0900	--	--	--	--	--	--	--	--	--	840	--
JUN												
17...	1700	--	--	--	--	--	--	--	--	--	860	--
26...	1745	--	--	--	--	--	--	--	--	--	930	--
AUG												
01...	1700	--	--	--	--	--	--	--	--	--	1100	--
05...	1030	--	--	--	--	--	--	--	--	--	600	--
SEP												
03...	1420	--	--	--	--	--	--	--	--	--	720	--
28...	1445	--	--	--	--	--	--	--	--	--	800	--

09216880 BITTER CREEK BELOW LITTLE BITTER CREEK, NEAR KANDA, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	CADMIUM SUS- PENDED RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, SUS- PENDED RECOV. (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDED RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDED RECOV- ERABLE (UG/L AS PB)
OCT												
15...	8	2	20	0	20	<10	<7	3	410	150	<100	<95
DEC												
02...	--	--	--	--	--	--	--	--	--	130	--	--
20...	--	--	--	--	--	--	--	--	--	230	--	--
JAN												
22...	--	--	--	--	--	--	--	--	--	200	--	--
FEB												
16...	--	--	--	--	--	--	--	--	--	140	--	--
MAR												
18...	--	--	--	--	--	--	--	--	--	200	--	--
APR												
29...	0	2	10	0	10	14	13	1	3000	190	9	3
MAY												
28...	--	--	--	--	--	--	--	--	--	200	--	--
JUN												
17...	--	--	--	--	--	--	--	--	--	150	--	--
26...	--	--	--	--	--	--	--	--	--	60	--	--
AUG												
01...	--	--	--	--	--	--	--	--	--	200	--	--
05...	--	--	--	--	--	--	--	--	--	10	--	--
SEP												
03...	--	--	--	--	--	--	--	--	--	370	--	--
28...	--	--	--	--	--	--	--	--	--	210	--	--

DATE	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM TOTAL RECOV- ERABLE (UG/L AS LI)	LITHIUM SUS- PENDED RECOV- ERABLE (UG/L AS LI)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDED RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDED RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, TOTAL RECOV- ERABLE (UG/L AS MO)	MOLYB- DENUM, SUS- PENDED RECOV. (UG/L AS MO)
OCT												
15...	5	50	0	50	270	60	210	.0	.0	.0	3	2
DEC												
02...	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
22...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
16...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
18...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
29...	6	270	0	300	330	70	260	.0	.0	.0	8	5
MAY												
28...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
17...	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	30	--	--	--	--	--
AUG												
01...	--	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	1	--	--	--	--	--
SEP												
03...	--	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--	--

09216880 BITTER CREEK BELOW LITTLE BITTER CREEK, NEAR KANDA, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, SUS-PENDED RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, SUS-PENDED TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT											
15...	1	<50	<44	6	0	0	0	1.5	30	10	20
DEC											
02...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
JAN											
22...	--	--	--	--	--	--	--	--	--	--	--
FEB											
16...	--	--	--	--	--	--	--	--	--	--	--
MAR											
18...	--	--	--	--	--	--	--	--	--	--	--
APR											
29...	3	15	13	2	0	0	0	4.0	40	20	20
MAY											
28...	--	--	--	--	--	--	--	--	--	--	--
JUN											
17...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
AUG											
01...	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--
SEP											
03...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO AUGUST 1978

DATE	JUN 26,78	AUG 5,78
TIME	1745	1030
TOTAL CELLS/ML	130000	420
DIVERSITY: DIVISION	0.8	1.3
.CLASS	0.8	1.3
..ORDER	0.9	1.3
...FAMILY	0.9	1.3
....GENUS	0.9	1.3

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)				
.CHLOROPHYCEAE				
..CHLOROCOCCALES				
...OOCYSTACEAE				
....OOCYSTIS	17000	13	--	-
...SCENEDESMACEAE				
....SCENEDESMUS	--	-	25	6
..VOLVOCALES				
...CHLAMYDOMONADACEAE				
....CHLAMYDOMONAS	4200	3	--	-
CHRYSOPHYTA				
.BACILLARIOPHYCEAE				
..CENTRALES				
...COSCINODISCACEAE				
....CYCLOTELLA	--	-	6	1
..PENNALES				
...FRAGILARIACEAE				
....SYNEDRA	--	-	3	1
...NAVICULACEAE				
....NAVICULA	--	-	3	1
...NITZSCHIACEAE				
....NITZSCHIA	3700	3	3	1
CYANOPHYTA (BLUE-GREEN ALGAE)				
.CYANOPHYCEAE				
..CHROOCOCCALES				
...CHROOCOCCACEAE				
....ANACYSTIS	110000#	81	--	-
..HORMOGONALES				
...OSCILLATORIACEAE				
....OSCILLATORIA	--	-	93#	22
EUGLENOPHYTA (EUGLENOIDS)				
.EUGLENOPHYCEAE				
..EUGLENALES				
...EUGLENACEAE				
....EUGLENA	*	0	290#	68

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

09216880 BITTER CREEK BELOW LITTLE BITTER CREEK, NEAR KANDA, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

JUNE 26, 1978
1745 HOURS

PERIPHYTON IDENTIFICATION

	ORGANISM NAME	COMMON NAME
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..CHLOROCOCCALES	
	...SCENEDESMACEAE	
	....SCENEDESMUS	
	..VOLVOCALES	
	...CHLAMYDOMONADACEAE	
	....CHLAMYDOMONAS	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
	....COCCONEIS	
	...NITZSCHIACEAE	
	....NITZSCHIA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.CYANOPHYCEAE	
	..CHROCCOCCALES	COCCOID BLUE-GREENS
	...CHROCCOCCAEAE	
	....ANACYSTIS	
	..HORMOGONALES	FILAMENTOUS BL-GREEN
	...OSCILLATORIACEAE	
&	....OSCILLATORIA	
	EUGLENOPHYTA	EUGLENOIDS
	.EUGLENOPHYCEAE	
	..EUGLENALES	
	...EUGLENACEAE	
	....EUGLENA	
	....PHACUS	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: GLASS CHAMBER(12MM CIRC), INVERTED MICROSCOPE

AUG. 5, 1978
1030 HOURS

PERIPHYTON IDENTIFICATION

	ORGANISM NAME	COMMON NAME
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..CHLOROCOCCALES	
	...SCENEDESMACEAE	
	....SCENEDESMUS	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...NITZSCHIACEAE	
	....NITZSCHIA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.CYANOPHYCEAE	
	..CHROCCOCCALES	COCCOID BLUE-GREENS
	...CHROCCOCCAEAE	
	....ANACYSTIS	
	..HORMOGONALES	FILAMENTOUS BL-GREEN
	...OSCILLATORIACEAE	
&	....OSCILLATORIA	
	....SPIRULINA	
	EUGLENOPHYTA	EUGLENOIDS
	.EUGLENOPHYCEAE	
	..EUGLENALES	
	...EUGLENACEAE	
&	....EUGLENA	
	....TRACHELOMONAS	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: SLIDE MOUNTING, INVERTED MICROSCOPE

09216880 BITTER CREEK BELOW LITTLE BITTER CREEK, NEAR KANDA, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

BENTHIC INVERTEBRATE ANALYSES, OCTOBER 1977 TO AUGUST 1978

DATE	JUN 26,78	AUG 5,78
TIME	1745	1030
TOTAL COUNT	13	2
DIVERSITY: PHYLUM	0.0	0.0
.CLASS	0.0	0.0
..ORDER	1.5	1.0
...FAMILY	1.5	1.0
....GENUS	2.6	1.0
....GENUS-INSECTA	2.6	1.0
ORGANISM	COUNT	COUNT
ARTHROPODA (ARTHROPODS)		
.INSECTA		
..COLEOPTERA		
...DYTISCIDAE		
....COPTOTOMUS	1	--
...HYDROPHILIDAE		
....HELOPHORUS	--	1
..DIPTERA		
...CHIRONOMIDAE		
....CHIRONOMUS	2	--
....CRICOTOPUS	4	--
....ORTHOCLADIUS	1	--
...TABANIDAE		
....UNKNOWN GENUS	--	1
..EPHEMEROPTERA		
...BAETIDAE		
....BAETIS	3	--
..DIPTERA		
...CHIRONOMIDAE		
....PSECTROCLADIUS	1	--
..PLECOPTERA		
...NEMOURIDAE		
....NEMOURA	1	--

09217000 GREEN RIVER NEAR GREEN RIVER, WY

LOCATION.--Lat 41°30'59", long 109°26'54", in NW¼NE¼NE¼ sec.26, T.18 N., R.107 W., Sweetwater County, Hydrologic Unit 14040106, on right bank 0.1 mi (0.2 km) downstream from Bitter Creek, 1.0 mi (1.6 km) southeast of town of Green River, and 4.0 mi (6.4 km) upstream from high-water line of Flaming Gorge Reservoir.

DRAINAGE AREA.--About 14,000 mi² (36,300 km²), of which 4,260 mi² (11,030 km²), including 3,959 mi² (10,254 km²) in Great Divide Basin in southern Wyoming, is probably noncontributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1951 to current year.

REVISED RECORDS.--WSP 1713: 1957. WDR-76-2: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,060 ft (1,847 m), from topographic map.

REMARKS.--Records good except those for winter period, and periods of no gage-height record, Dec. 21-27, Mar. 31 to Apr. 28, May 14-26, which are poor. Some regulation by Fontenelle Reservoir since August 1963. (See sta 09211150.) Natural flow of stream affected by transbasin diversions, storage reservoirs, power development, and diversions for irrigation of about 223,000 acres (902 km²) above station.

AVERAGE DISCHARGE.--27 years, 1,717 ft³/s (48.63 m³/s), 1,244,000 acre-ft/yr (1,534 hm³/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,800 ft³/s (476 m³/s) Sept. 7, 1965, gage height, 8.53 ft (2.600 m), caused by emergency release from Fontenelle Reservoir; minimum daily discharge, 170 ft³/s (4.81 m³/s) Nov. 16, 1955.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge observed, 22,200 ft³/s (629 m³/s) June 19, 1918, at site 1.5 mi (2.4 km) upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,660 ft³/s (245 m³/s) June 21, gage height, 5.98 ft (1.823 m); minimum daily, 350 ft³/s (9.91 m³/s) Dec. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	464	524	460	810	830	1300	1570	1780	5040	4770	3850	1580
2	470	506	455	700	830	1280	1570	1770	5260	4770	3800	1580
3	470	500	570	620	830	1280	1570	1770	5330	4770	3640	1570
4	464	512	530	770	840	1380	1570	1750	5570	4770	3490	1570
5	476	530	455	910	830	1500	1670	2230	5910	4840	3310	1540
6	518	543	405	990	840	1600	1720	2520	5400	4840	3120	1540
7	630	550	490	1100	840	1700	1800	2520	5230	5110	2940	1540
8	524	543	350	1150	830	1800	1800	2540	5160	5260	2770	1530
9	506	536	430	1150	840	1680	1780	2560	5570	5140	2540	1510
10	500	518	610	1150	830	1510	1770	2520	6040	4950	2400	1510
11	512	524	720	1160	840	1490	1770	2520	6180	5140	2310	1530
12	536	512	820	1140	820	1530	1780	2500	6240	5310	2190	1530
13	518	512	800	1140	790	1460	1780	2520	6640	5400	2160	1540
14	500	518	880	1150	770	1360	1780	2500	7250	5380	2180	1530
15	506	512	900	1160	1070	1290	1780	2500	7790	5400	2160	1560
16	506	518	720	1140	1300	1280	1780	2510	7850	5400	2160	1580
17	494	512	610	1130	1370	1160	1780	2510	8220	5380	2160	1620
18	494	512	740	1130	1300	1040	1780	2510	8470	5400	2100	2020
19	500	475	630	1150	1250	1200	1780	2500	8470	5380	2030	1850
20	512	450	610	1160	1300	1280	1780	2500	8520	5400	1950	1690
21	543	420	750	1160	1300	1110	1780	2500	8520	5350	1860	1660
22	530	460	840	1130	1300	1020	1750	2500	8170	5210	1800	1630
23	518	595	880	1130	1300	1050	1750	2600	7440	5070	1700	1620
24	512	647	950	1100	1340	952	1780	2800	6640	4980	1620	1510
25	512	723	950	1020	1390	907	1780	2900	5740	4770	1630	1030
26	512	667	920	1120	1390	872	1780	3250	4980	4490	1620	432
27	512	647	860	1090	1370	872	1780	3820	4860	4190	1620	380
28	512	582	800	1000	1340	880	1740	4190	4790	3960	1620	365
29	518	608	850	840	---	1000	1720	4190	4650	3800	1600	352
30	524	530	970	830	---	1380	1860	4220	4790	3690	1620	352
31	524	---	930	830	---	1570	---	4420	---	3780	1600	---
TOTAL	15817	16186	21885	32060	29880	39733	52330	84420	190720	152100	71550	41251
MEAN	510	540	706	1034	1067	1282	1744	2723	6357	4906	2308	1375
MAX	630	723	970	1160	1390	1800	1860	4420	8520	5400	3850	2020
MIN	464	420	350	620	770	872	1570	1750	4650	3690	1600	352
AC-FT	31370	32100	43410	63590	59270	78810	103800	167400	378300	301700	141900	81820

CAL YR 1977 TOTAL 217416 MEAN 596 MAX 1580 MIN 275 AC-FT 431200
WTR YR 1978 TOTAL 747932 MEAN 2049 MAX 8520 MIN 350 AC-FT 1484000

09217000 GREEN RIVER NEAR GREEN RIVER, WY--Continued

WATER-QUALITY RECORDS

LOCATION.--Daily water temperatures and samples of specific conductance and sediment collected at bridge on State Highway 530 in town of Green River, 0.8 mi (1.3 km) upstream from Bitter Creek and 1.0 mi (1.6 km) upstream from discharge station.

PERIOD OF RECORD.--Water years 1951 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: May 1951 to current year.
WATER TEMPERATURES: May 1951 to current year.
SEDIMENT CONCENTRATIONS: May 1951 to current year.
SEDIMENT LOADS: May 1951 to current year.

REMARKS.--Flow affected by ice Nov. 19-22, Dec. 1 to Mar. 9.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum observed, 1,530 micromhos June 29, 1977; minimum daily, 219 micromhos May 22, 1954.
WATER TEMPERATURES: Maximum, 29.0°C July 1, 1977; minimum, 0.0°C on many days during winter period.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 15,000 mg/L Aug. 11, 1963; minimum daily mean, 0 mg/L Sept. 18, 1962.
SEDIMENT LOADS: Maximum daily, 110,000 tons (99,800 tonnes) Mar. 28, 1962; minimum daily, 0 ton Sept. 18, 1962.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum observed, 1,000 micromhos Oct. 9; minimum observed, 282 micromhos July 19.
WATER TEMPERATURES: Maximum, 23.0°C Aug. 7, 8; minimum, 0.0°C on many days during November to March.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 1,960 mg/L June 5; minimum daily mean, 3 mg/L Aug. 28, Sept. 7, 12, 26.
SEDIMENT LOADS: Maximum daily, 31,300 tons (28,400 tonnes) June 5; minimum daily, 3.5 tons (3.2 tonnes) Sept. 26.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
OCT												
04...	1400	495	810	--	12.0	15	--	--	--	--	--	--
15...	0800	506	740	8.5	7.0	20	9.2	K4	270	130	63	28
NOV												
04...	0900	493	840	--	4.0	9	--	--	--	--	--	--
28...	1450	572	750	--	.5	35	--	--	--	--	--	--
29...	0730	634	770	8.1	1.0	10	12.2	K9	290	130	68	29
DEC												
19...	1445	A630	570	8.3	.0	4	11.2	K13	230	79	56	21
28...	1145	A800	800	--	.0	5	--	--	--	--	--	--
JAN												
18...	1630	A1130	510	8.0	.0	4	9.3	K8	210	63	53	19
27...	1700	A1090	500	--	.0	6	--	--	--	--	--	--
FEB												
15...	1515	1070	590	8.1	.0	3	12.7	K4	220	66	56	20
MAR												
10...	1415	1510	600	--	4.0	95	--	--	--	--	--	--
15...	1540	1470	680	8.2	1.5	30	11.3	K5	240	80	60	21
31...	1210	1550	650	--	9.5	120	--	--	--	--	--	--
APR												
28...	1630	A1740	640	8.3	9.0	25	9.6	K4	220	68	55	21
MAY												
03...	1100	1750	530	--	9.5	15	--	--	--	--	--	--
24...	1650	A2800	530	8.2	13.0	20	9.3	K2	220	61	57	18
25...	1615	2900	500	--	14.5	20	--	--	--	--	--	--
JUN												
14...	1410	7270	400	--	15.5	25	--	--	--	--	--	--
16...	1640	7870	420	8.4	17.0	20	8.8	K2	170	30	43	14
21...	1600	8410	340	--	17.0	15	--	--	--	--	--	--
JUL												
07...	1630	4940	320	--	19.0	4	--	--	--	--	--	--
28...	1430	3860	310	--	21.5	--	--	--	--	--	--	--
AUG												
02...	1450	3800	360	8.3	21.0	4	8.5	K8	140	24	36	12
25...	1420	1680	440	--	20.0	3	--	--	--	--	--	--
30...	1615	1630	440	8.6	20.0	2	9.4	K7	170	48	42	16
SEP												
27...	1200	381	850	--	15.5	2	--	--	--	--	--	--
27...	1630	375	890	8.9	16.0	2	11.1	K8	280	130	66	27

A-Daily mean discharge.
K-Results based on colony count outside the acceptable range (non-ideal colony count).

09217000 GREEN RIVER NEAR GREEN RIVER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
OCT											
04...	--	--	--	--	--	--	--	--	--	--	--
15...	85	2.2	2.3	180	0	150	280	14	.3	1.9	563
NOV											
04...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
29...	93	2.4	2.3	190	0	160	300	17	.4	2.9	606
DEC											
19...	51	1.5	2.1	180	0	150	170	8.5	.3	3.5	401
28...	--	--	--	--	--	--	--	--	--	--	--
JAN											
18...	42	1.3	2.1	180	0	150	140	6.7	.2	4.3	356
27...	--	--	--	--	--	--	--	--	--	--	--
FEB											
15...	45	1.3	2.0	190	0	160	140	7.4	.3	5.4	370
MAR											
10...	--	--	--	--	--	--	--	--	--	--	--
15...	59	1.7	2.1	190	0	160	170	14	.3	4.9	425
31...	--	--	--	--	--	--	--	--	--	--	--
APR											
28...	58	1.7	2.2	190	0	160	160	13	.2	5.8	409
MAY											
03...	--	--	--	--	--	--	--	--	--	--	--
24...	50	1.5	2.3	--	--	160	160	6.9	.2	6.2	395
25...	--	--	--	--	--	--	--	--	--	--	--
JUN											
14...	--	--	--	--	--	--	--	--	--	--	--
16...	18	.6	2.4	160	2	130	60	2.9	.2	7.1	229
21...	--	--	--	--	--	--	--	--	--	--	--
JUL											
07...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
AUG											
02...	17	.6	1.8	140	0	110	53	3.7	.1	6.3	199
25...	--	--	--	--	--	--	--	--	--	--	--
30...	30	1.0	1.9	140	5	120	110	5.3	.2	4.6	285
SEP											
27...	--	--	--	--	--	--	--	--	--	--	--
27...	93	2.4	2.8	170	6	150	300	15	.3	1.8	596

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS NO3)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C)
OCT											
04...	--	--	--	--	--	--	--	--	--	--	--
15...	.77	769	.12	.00	.46	.46	.58	2.6	.07	3.3	.6
NOV											
04...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
29...	.82	1040	.19	.04	.56	.60	.79	3.5	.02	--	--
DEC											
19...	.55	682	.10	.12	.22	.34	.44	1.9	.01	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
JAN											
18...	.48	1090	.07	.01	.25	.26	.33	1.5	.03	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
FEB											
15...	.50	1070	.23	.06	.55	.61	.84	3.7	.03	--	--
MAR											
10...	--	--	--	--	--	--	--	--	--	--	--
15...	.58	1690	.07	.00	.26	.26	.33	1.5	.10	--	--
31...	--	--	--	--	--	--	--	--	--	--	--
APR											
28...	.56	1920	.06	.06	.47	.53	.59	2.6	.07	--	--
MAY											
03...	--	--	--	--	--	--	--	--	--	--	--
24...	.54	2990	.03	.04	.93	.97	1.0	4.4	.07	--	--
25...	--	--	--	--	--	--	--	--	--	--	--
JUN											
14...	--	--	--	--	--	--	--	--	--	--	--
16...	.31	4870	.03	.14	.96	1.1	1.1	5.0	.00	7.1	1.1
21...	--	--	--	--	--	--	--	--	--	--	--
JUL											
07...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
AUG											
02...	.27	2040	.05	.00	.93	.93	.98	4.3	.01	--	--
25...	--	--	--	--	--	--	--	--	--	--	--
30...	.39	1250	.04	.08	.72	.80	.84	3.7	.02	--	--
SEP											
27...	--	--	--	--	--	--	--	--	--	--	--
27...	.81	603	.06	.07	.72	.79	.85	3.8	.03	--	--

09217000 GREEN RIVER NEAR GREEN RIVER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)	ALUM-INUM, SUS-PENDED RECOV. (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS-PENDED TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE)	BERYL-LIUM, SUS-PENDED RECOV. (UG/L AS BE)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)
OCT												
15...	0800	800	780	20	2	1	1	0	0	20	90	10
NOV												
29...	0730	--	--	--	--	--	--	--	--	--	90	--
DEC												
19...	1445	--	--	--	--	--	--	--	--	--	70	--
JAN												
18...	1630	--	--	--	--	--	--	--	--	--	50	--
FEB												
15...	1515	--	--	--	--	--	--	--	--	--	60	--
MAR												
15...	1540	--	--	--	--	--	--	--	--	--	80	--
APR												
28...	1630	--	--	--	--	--	--	--	--	--	60	--
MAY												
24...	1650	--	--	--	--	--	--	--	--	--	50	--
JUN												
16...	1640	120	110	10	1	0	1	0	0	0	60	2
AUG												
02...	1450	--	--	--	--	--	--	--	--	--	50	--
30...	1615	--	--	--	--	--	--	--	--	--	50	--
SEP												
27...	1630	--	--	--	--	--	--	--	--	--	120	--

DATE	CADMIUM SUS-PENDED RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, SUS-PENDED RECOV. (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, SUS-PENDED RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB)
OCT												
15...	3	7	10	0	10	<10	<10	0	970	30	<100	<84
NOV												
29...	--	--	--	--	--	--	--	--	--	50	--	--
DEC												
19...	--	--	--	--	--	--	--	--	--	110	--	--
JAN												
18...	--	--	--	--	--	--	--	--	--	80	--	--
FEB												
15...	--	--	--	--	--	--	--	--	--	90	--	--
MAR												
15...	--	--	--	--	--	--	--	--	--	110	--	--
APR												
28...	--	--	--	--	--	--	--	--	--	180	--	--
MAY												
24...	--	--	--	--	--	--	--	--	--	200	--	--
JUN												
16...	0	2	10	10	0	19	11	8	1300	50	13	6
AUG												
02...	--	--	--	--	--	--	--	--	--	260	--	--
30...	--	--	--	--	--	--	--	--	--	1300	--	--
SEP												
27...	--	--	--	--	--	--	--	--	--	270	--	--

09217000 GREEN RIVER NEAR GREEN RIVER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)	LITHIUM SUS-PENDED RECOV-ERABLE (UG/L AS LI)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO)	MOLYB-DENUM, SUS-PENDED RECOV. (UG/L AS MO)
OCT												
15...	16	20	10	6	60	50	10	.0	.0	.0	4	2
NOV												
29...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
19...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
18...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
15...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
15...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
28...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
24...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
16...	9	7	5	2	60	60	5	.0	.0	.0	4	0
AUG												
02...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
27...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, SUS-PENDED RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, SUS-PENDED TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT											
15...	2	<50	<47	3	0	0	0	.2	10	0	10
NOV											
29...	--	--	--	--	--	--	--	--	--	--	--
DEC											
19...	--	--	--	--	--	--	--	--	--	--	--
JAN											
18...	--	--	--	--	--	--	--	--	--	--	--
FEB											
15...	--	--	--	--	--	--	--	--	--	--	--
MAR											
15...	--	--	--	--	--	--	--	--	--	--	--
APR											
28...	--	--	--	--	--	--	--	--	--	--	--
MAY											
24...	--	--	--	--	--	--	--	--	--	--	--
JUN											
16...	5	7	7	0	1	1	0	1.0	30	10	20
AUG											
02...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
SEP											
27...	--	--	--	--	--	--	--	--	--	--	--

DATE	TIME	TEMPER-ATURE (DEG C)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM
MAR								
31...	1210	9.5	1550	305	1270	67	90	100

09217000 GREEN RIVER NEAR GREEN RIVER, WY--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	795	797	883	643	656	509	553	708	424	317	322	424
2	783	785	828	640	656	512	693	608	419	310	318	417
3	779	815	870	644	641	545	687	552	419	312	313	413
4	786	798	845	664	628	531	591	551	425	305	317	410
5	790	808	864	665	621	530	563	519	468	310	333	426
6	788	802	877	597	627	523	568	517	463	305	341	437
7	784	802	899	600	623	491	574	595	419	302	347	421
8	777	800	772	570	639	495	577	607	407	301	341	433
9	1000	798	883	570	626	569	560	527	406	300	346	427
10	817	887	754	552	640	578	542	519	406	306	346	410
11	815	759	864	541	587	645	547	523	386	296	350	427
12	810	873	668	551	645	608	539	518	387	301	347	432
13	813	814	650	552	666	579	544	531	387	301	367	411
14	801	819	655	565	677	568	533	510	382	293	371	433
15	803	803	663	562	623	567	529	518	371	286	374	421
16	815	909	678	554	616	574	539	497	369	292	393	432
17	785	828	692	557	545	561	550	498	355	286	391	426
18	791	824	623	555	562	740	556	561	357	292	384	438
19	798	885	620	548	550	693	531	608	342	282	378	449
20	782	866	623	559	554	701	548	541	324	287	381	497
21	798	852	697	556	559	647	540	555	324	293	373	461
22	799	716	704	563	525	848	548	506	322	291	386	454
23	795	730	677	560	506	793	544	501	310	296	402	458
24	817	685	706	563	526	837	533	477	318	301	407	436
25	822	790	695	553	525	804	535	473	333	296	410	473
26	809	749	689	545	514	804	541	485	319	301	420	773
27	805	693	659	564	530	837	530	451	320	312	420	828
28	791	720	635	580	541	843	607	443	319	311	412	903
29	797	842	641	628	---	764	563	444	320	307	426	923
30	806	877	649	633	---	708	553	429	320	313	433	903
31	778	---	645	658	---	608	---	422	---	324	424	---
MEAN	804	804	729	584	593	646	561	522	371	301	373	507

WTR YR 1978 MEAN 566 MAX 1000 MIN 282

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.0	2.0	.0	.0	.0	.0	7.0	6.5	9.0	17.0	16.0	15.0
2	11.0	2.5	.0	.0	.0	.0	6.0	7.0	9.0	17.0	17.5	19.0
3	10.0	3.5	.0	.0	.0	.0	5.0	8.0	8.0	17.0	19.5	19.5
4	11.0	3.0	.0	.0	.0	.0	5.5	7.0	12.0	17.0	20.0	20.5
5	12.0	5.5	.0	.0	.0	.0	4.5	6.0	9.0	17.0	22.0	16.0
6	11.0	6.0	.0	.0	.0	.0	6.5	6.0	12.0	17.0	22.0	19.0
7	9.0	5.0	.0	.0	.0	.0	7.0	6.5	12.0	15.0	23.0	18.0
8	9.0	4.5	.0	.0	.0	.0	6.0	6.5	12.0	16.0	23.0	16.5
9	9.0	1.0	.0	.0	.0	1.5	8.0	6.5	15.0	14.0	18.0	18.0
10	7.0	2.5	.0	.0	.0	2.5	7.5	9.0	13.5	17.0	19.0	15.0
11	8.0	4.0	.0	.0	.0	1.5	8.0	7.5	12.0	18.0	19.0	11.5
12	9.0	2.0	.0	.0	.0	1.5	6.0	6.5	12.0	17.5	20.0	10.0
13	10.0	3.0	.0	.0	.0	1.0	6.0	9.0	16.0	19.0	16.5	12.0
14	9.0	2.0	.0	.0	.0	1.0	5.0	14.0	15.0	19.0	14.0	12.0
15	10.0	1.5	.0	.0	.0	.0	9.0	15.5	13.5	17.0	14.0	12.0
16	8.0	.0	.0	.0	.0	.0	5.0	10.0	13.0	19.0	19.0	12.5
17	11.0	.0	.0	.0	.0	2.0	3.0	6.5	13.5	19.0	14.0	12.0
18	11.0	.5	.0	.0	.0	2.0	3.5	7.0	16.5	19.0	12.0	8.0
19	11.0	2.0	.0	.0	.0	2.0	8.5	6.5	13.0	19.0	15.0	6.5
20	8.5	.0	.0	.0	.0	4.0	4.0	11.0	14.0	19.5	16.0	7.0
21	10.0	.0	.0	.0	.0	5.0	4.0	12.0	13.5	17.5	18.0	9.0
22	9.0	.0	.0	.0	.0	5.0	3.0	10.0	15.5	17.0	17.0	10.0
23	9.0	.0	.0	.0	.0	5.0	9.0	10.0	15.0	20.0	14.0	15.0
24	9.0	.0	.0	.0	.0	4.5	4.5	12.0	15.0	18.0	17.0	15.0
25	9.0	.0	.0	.0	.0	5.0	10.0	13.5	15.0	21.0	18.0	15.0
26	10.0	.0	.0	.0	.0	5.0	8.5	9.0	17.0	21.5	20.0	13.0
27	6.0	.0	.0	.0	.0	5.0	9.0	10.0	16.0	19.0	18.0	13.0
28	8.5	.0	.0	.0	.0	7.0	9.0	14.0	16.5	20.0	19.0	15.5
29	8.0	.0	.0	.0	---	7.5	8.0	14.0	18.0	20.0	19.0	14.5
30	6.0	.0	.0	.0	---	7.0	7.0	11.0	15.0	21.5	19.0	18.5
31	2.5	---	.0	.0	---	7.5	---	7.0	---	19.0	18.0	---
MEAN	9.0	1.5	.0	.0	.0	2.5	6.5	9.0	13.5	18.0	18.0	14.0

WTR YR 1978 MEAN 8.0 MAX 23.0 MIN .0

09217000 GREEN RIVER NEAR GREEN RIVER, WY--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		OCTOBER			NOVEMBER			DECEMBER	
1	464	57	71	524	17	24	460	18	22
2	470	50	63	506	39	53	455	28	34
3	470	48	61	500	17	23	570	23	35
4	464	49	61	512	22	30	530	32	46
5	476	53	68	530	30	43	455	45	55
6	518	61	85	543	33	48	405	53	58
7	630	267	454	550	34	50	490	52	69
8	524	385	545	543	27	40	350	61	58
9	506	150	205	536	31	45	430	25	29
10	500	124	167	518	20	28	610	14	23
11	512	32	44	524	67	95	720	22	43
12	536	42	61	512	19	26	820	21	46
13	518	45	63	512	21	29	800	19	41
14	500	47	63	518	25	35	880	9	21
15	506	48	66	512	21	29	900	12	29
16	506	45	61	518	23	32	720	14	27
17	494	37	49	512	18	25	610	12	20
18	494	34	45	512	11	15	740	10	20
19	500	33	45	475	5	6.4	630	8	14
20	512	36	50	450	56	68	610	6	9.9
21	543	44	65	420	70	79	750	10	20
22	530	40	57	460	24	30	840	11	25
23	518	41	57	595	24	39	880	25	59
24	512	38	53	647	37	65	950	35	90
25	512	38	53	723	38	74	950	17	44
26	512	37	51	667	23	41	920	18	45
27	512	40	55	647	35	61	860	14	33
28	512	30	41	582	24	38	800	19	41
29	518	40	56	608	32	53	850	13	30
30	524	39	55	530	25	36	970	13	34
31	524	25	35	---	---	---	930	26	65
TOTAL	15817	---	2905	16186	---	1260.4	21885	---	1185.9

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		JANUARY			FEBRUARY			MARCH	
1	810	26	57	830	12	27	1300	70	246
2	700	10	19	830	10	22	1280	51	176
3	620	13	22	830	12	27	1280	47	162
4	770	12	25	840	19	43	1380	70	261
5	910	16	39	830	22	49	1500	88	356
6	990	15	40	840	19	43	1600	144	622
7	1100	14	42	840	18	41	1700	436	2000
8	1150	24	75	830	24	54	1800	418	2030
9	1150	29	90	840	17	39	1680	325	1470
10	1150	15	47	830	16	36	1510	250	1020
11	1160	18	56	840	18	41	1490	150	603
12	1140	17	52	820	19	42	1530	210	868
13	1140	14	43	790	15	32	1460	295	1160
14	1150	17	53	770	16	33	1360	186	683
15	1160	20	63	1070	25	72	1290	36	125
16	1140	19	58	1300	24	84	1280	41	142
17	1130	15	46	1370	24	89	1160	37	116
18	1130	15	46	1300	30	105	1040	68	191
19	1150	16	50	1250	31	105	1200	185	599
20	1160	16	50	1300	36	126	1280	675	2330
21	1160	17	53	1300	34	119	1110	450	1350
22	1130	14	43	1300	39	137	1020	380	1050
23	1130	29	88	1300	37	130	1050	270	765
24	1100	31	92	1340	39	141	952	270	694
25	1020	11	30	1390	47	176	907	190	465
26	1120	11	33	1390	49	184	872	165	388
27	1090	17	50	1370	122	451	872	130	306
28	1000	28	76	1340	93	336	880	152	361
29	840	16	36	---	---	---	1000	244	659
30	830	20	45	---	---	---	1380	400	1490
31	830	12	27	---	---	---	1570	308	1310
TOTAL	32060	---	1546	29880	---	2784	39733	---	23998

09217000 GREEN RIVER NEAR GREEN RIVER, WY--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		APRIL			MAY			JUNE	
1	1570	310	1310	1780	255	1230	5040	206	2800
2	1570	320	1360	1770	72	344	5260	170	2410
3	1570	265	1120	1770	46	220	5330	156	2240
4	1570	275	1170	1750	44	208	5570	246	3700
5	1670	170	767	2230	105	665	5910	1960	31300
6	1720	115	534	2520	99	674	5400	350	5100
7	1800	102	496	2520	68	463	5230	120	1690
8	1800	87	423	2540	150	1030	5160	98	1370
9	1780	87	418	2560	580	4010	5570	82	1230
10	1770	71	339	2520	420	2860	6040	115	1880
11	1770	61	292	2520	160	1090	6180	124	2070
12	1780	41	197	2500	100	675	6240	115	1940
13	1780	39	187	2520	120	816	6640	136	2440
14	1780	43	207	2500	135	911	7250	186	3640
15	1780	38	183	2500	110	742	7790	170	3580
16	1780	29	139	2510	110	745	7850	134	2840
17	1780	32	154	2510	75	508	8220	135	3000
18	1780	20	96	2510	515	3490	8470	126	2880
19	1780	37	178	2500	405	2730	8470	102	2330
20	1780	26	125	2500	105	709	8520	95	2190
21	1780	20	96	2500	110	742	8520	95	2190
22	1750	27	128	2500	150	1010	8170	62	1370
23	1750	22	104	2600	150	1050	7440	53	1060
24	1780	40	192	2800	100	756	6640	47	843
25	1780	37	178	2900	110	861	5740	49	759
26	1780	43	207	3250	190	1670	4980	29	390
27	1780	53	255	3820	198	2040	4860	30	394
28	1740	68	319	4190	160	1810	4790	27	349
29	1720	59	274	4190	132	1490	4650	24	301
30	1860	445	2230	4220	110	1250	4790	19	246
31	---	---	---	4420	195	2330	---	---	---
TOTAL	52330	---	13678	84420	---	39129	190720	---	88532

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		JULY			AUGUST			SEPTEMBER	
1	4770	21	270	3850	16	166	1580	8	34
2	4770	21	270	3800	22	226	1580	5	21
3	4770	18	232	3640	12	118	1570	6	25
4	4770	20	258	3490	13	122	1570	6	25
5	4840	12	157	3310	17	152	1540	10	42
6	4840	15	196	3120	12	101	1540	11	46
7	5110	22	304	2940	14	111	1540	3	12
8	5260	18	256	2770	16	120	1530	7	29
9	5140	17	236	2540	18	123	1510	4	16
10	4950	13	174	2400	14	91	1510	7	29
11	5140	15	208	2310	12	75	1530	8	33
12	5310	15	215	2190	13	77	1530	3	12
13	5400	19	277	2160	450	2620	1540	4	17
14	5380	31	450	2180	62	365	1530	10	41
15	5400	16	233	2160	150	875	1560	13	55
16	5400	18	262	2160	31	181	1580	4	17
17	5380	17	247	2160	24	140	1620	7	31
18	5400	18	262	2100	19	108	2020	551	3220
19	5380	25	363	2030	12	66	1850	225	1120
20	5400	17	248	1950	13	68	1690	67	306
21	5350	16	231	1860	16	80	1660	29	130
22	5210	20	281	1800	15	73	1630	20	88
23	5070	18	246	1700	13	60	1620	12	52
24	4980	21	282	1620	9	39	1510	10	41
25	4770	20	258	1630	9	40	1030	7	19
26	4490	18	218	1620	7	31	432	3	3.5
27	4190	15	170	1620	11	48	380	6	6.2
28	3960	29	310	1620	3	13	365	4	3.9
29	3800	20	205	1600	5	22	352	7	6.7
30	3690	14	139	1620	7	31	352	22	21
31	3780	19	194	1600	5	22	---	---	---
TOTAL	152100	---	7652	71550	---	6364	41251	---	5502.3
YEAR	747932		194536.6						

09217010 GREEN RIVER BELOW GREEN RIVER, WY

LOCATION.--Lat 41°29'46", long 109°26'17", in SW¼SE¼NW¼ sec.36, T.18 N., R.107 W., Sweetwater County, Hydrologic Unit 14040106, at bridge on county road, 1.7 mi (2.7 km) downstream from Bitter Creek, 2.7 mi (4.3 km) southeast of town of Green River, and 3.3 mi (5.3 km) upstream from Logan Draw.

PERIOD OF RECORD.--Water years 1974 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
OCT												
15...	1000	510	750	8.4	8.0	20	9.4	4.0	180	270	120	61
NOV												
29...	0845	E600	780	8.2	1.0	10	10.3	2.6	K48	290	130	68
DEC												
19...	1540	E630	600	8.4	.0	7	10.8	2.5	250	240	85	59
JAN												
18...	1720	E1100	510	8.0	.0	20	9.5	4.2	290	210	65	54
FEB												
15...	1615	E1100	690	8.1	.0	10	11.4	3.8	K44	270	94	67
MAR												
15...	1650	1450	720	8.2	1.5	70	11.8	2.2	300	230	77	57
APR												
28...	1715	1700	650	8.3	9.0	30	9.7	3.4	K52	220	68	55
MAY												
24...	1750	2900	520	8.2	13.0	30	9.2	2.2	190	210	51	53
JUN												
16...	1800	7700	420	8.4	17.0	20	8.7	2.2	130	160	31	42
AUG												
02...	1600	4000	360	8.3	21.0	7	8.6	4.5	K4	140	33	36
30...	1730	1680	440	8.6	22.0	4	9.6	3.3	K4	170	56	42
SEP												
27...	1710	391	900	9.0	16.0	4	12.2	3.6	K8	270	120	63

E-Estimate.
K-Results based on colony count outside the acceptable range (non-ideal colony count).

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)
OCT											
15...	28	85	2.3	2.4	180	0	150	280	15	.3	1.8
NOV											
29...	29	94	2.4	2.2	190	0	160	300	18	.4	3.0
DEC											
19...	22	53	1.5	2.3	180	3	150	170	12	.3	3.5
JAN											
18...	19	43	1.3	2.1	180	0	150	140	7.7	.2	4.3
FEB											
15...	26	59	1.6	2.4	220	0	180	180	13	.3	6.3
MAR											
15...	22	65	1.9	2.3	190	0	160	180	17	.3	4.9
APR											
28...	21	59	1.7	2.2	190	0	160	160	14	.2	5.7
MAY											
24...	18	38	1.2	2.2	190	0	160	100	11	.2	6.2
JUN											
16...	14	18	.6	1.9	160	0	130	63	4.7	.2	7.0
AUG											
02...	12	17	.6	1.8	130	0	110	54	3.9	.1	6.3
30...	16	27	.9	1.7	130	5	120	110	5.4	.2	4.6
SEP											
27...	27	97	2.6	2.7	170	3	140	290	22	.3	1.8

09217010 GREEN RIVER BELOW GREEN RIVER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS NO3)	PHOS-PHORUS, TOTAL (MG/L AS P)
OCT											
15...	562	.76	774	--	.12	.03	.68	.71	.83	3.7	.08
NOV											
29...	608	.83	--	--	.24	.13	.64	.77	1.0	4.5	.05
DEC											
19...	414	.56	704	--	.11	.16	.32	.48	.59	2.6	.07
JAN											
18...	359	.49	--	--	.09	.06	.32	.38	.47	2.1	.08
FEB											
15...	463	.63	--	--	.33	.12	.45	.57	.90	4.0	.10
MAR											
15...	442	.60	1730	--	.15	.11	.53	.64	.79	3.5	.25
APR											
28...	411	.56	1890	--	.08	.08	.48	.56	.64	2.8	.09
MAY											
24...	322	.44	2520	--	.28	.04	.69	.73	1.0	4.5	.11
JUN											
16...	230	.31	4780	.59	.04	.11	2.6	2.7	2.7	12	.01
AUG											
02...	195	.27	2110	--	.05	.01	2.0	2.0	2.1	9.1	.02
30...	277	.38	1260	--	.05	.06	2.3	2.4	2.5	11	.02
SEP											
27...	591	.80	624	--	.08	.14	.63	.77	.85	3.8	.20

DATE	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C)	PHYTO-PLANK-TON, TOTAL (CELLS PER ML)	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	BIOMASS CHLORO-PHYLL RATIO PLANK-TON (UNITS)	BIOMASS CHLORO-PHYLL RATIO PERI-PHYTON (UNITS)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L)	CHLOR-A PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	CHLOR-B PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)
OCT											
15...	3.9	.6	5900	--	--	294000	--	.034	.010	--	--
NOV											
29...	--	--	1300	--	--	--	--	.000	.000	--	--
DEC											
19...	--	--	1600	--	--	.00	--	.000	.000	--	--
JAN											
18...	--	--	1300	--	--	--	--	.000	.000	--	--
FEB											
15...	--	--	870	--	--	1901	--	2.63	.000	--	--
MAR											
15...	--	--	1500	--	--	5420	--	3.69	.000	--	--
APR											
28...	--	--	1300	--	--	3927	--	3.82	.000	--	--
MAY											
24...	--	--	1500	.630	.866	1.04	3160	4.83	.000	.050	.000
JUN											
16...	5.7	.9	1000	--	--	--	--	--	--	--	--
AUG											
02...	--	--	1500	13.5	16.0	5929	289	2.53	.000	9.69	1.30
30...	--	--	710	--	--	--	--	.000	.000	--	--
SEP											
27...	--	--	910	--	--	.00	--	3.46	.000	--	--

09217010 GREEN RIVER BELOW GREEN RIVER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, SUSPENDED RECOV. (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUSPENDED TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	BERYLLIUM, SUSPENDED RECOV. (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)
OCT 15...	1000	660	650	10	1	0	1	0	0	20	90	10
NOV 29...	0845	--	--	--	--	--	--	--	--	--	100	--
DEC 19...	1540	--	--	--	--	--	--	--	--	--	70	--
JAN 18...	1720	--	--	--	--	--	--	--	--	--	60	--
FEB 15...	1615	--	--	--	--	--	--	--	--	--	80	--
MAR 15...	1650	--	--	--	--	--	--	--	--	--	70	--
APR 28...	1715	--	--	--	--	--	--	--	--	--	60	--
MAY 24...	1750	--	--	--	--	--	--	--	--	--	50	--
JUN 16...	1800	110	100	10	1	0	1	0	0	0	40	2
AUG 02...	1600	--	--	--	--	--	--	--	--	--	60	--
30...	1730	--	--	--	--	--	--	--	--	--	50	--
SEP 27...	1710	--	--	--	--	--	--	--	--	--	140	--

DATE	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)
OCT 15...	0	13	10	0	10	<10	<10	0	910	30	<100	<65
NOV 29...	--	--	--	--	--	--	--	--	--	40	--	--
DEC 19...	--	--	--	--	--	--	--	--	--	110	--	--
JAN 18...	--	--	--	--	--	--	--	--	--	110	--	--
FEB 15...	--	--	--	--	--	--	--	--	--	130	--	--
MAR 15...	--	--	--	--	--	--	--	--	--	120	--	--
APR 28...	--	--	--	--	--	--	--	--	--	230	--	--
MAY 24...	--	--	--	--	--	--	--	--	--	140	--	--
JUN 16...	1	1	5	5	0	14	10	4	1200	40	13	0
AUG 02...	--	--	--	--	--	--	--	--	--	230	--	--
30...	--	--	--	--	--	--	--	--	--	470	--	--
SEP 27...	--	--	--	--	--	--	--	--	--	190	-	--

09217010 GREEN RIVER BELOW GREEN RIVER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)	LITHIUM SUS-PENDED RECOV-ERABLE (UG/L AS LI)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO)	MOLYB-DENUM, SUS-PENDED RECOV. (UG/L AS MO)
OCT 15...	35	10	4	6	50	40	10	.0	.0	.0	4	3
NOV 29...	--	--	--	--	--	--	--	--	--	--	--	--
DEC 19...	--	--	--	--	--	--	--	--	--	--	--	--
JAN 18...	--	--	--	--	--	--	--	--	--	--	--	--
FEB 15...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 15...	--	--	--	--	--	--	--	--	--	--	--	--
APR 28...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 24...	--	--	--	--	--	--	--	--	--	--	--	--
JUN 16...	14	7	7	0	60	60	0	.0	.0	.0	5	0
AUG 02...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 27...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, SUS-PENDED RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, SUS-PENDED TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT 15...	1	<50	<47	3	0	0	0	.3	10	0	10
NOV 29...	--	--	--	--	--	--	--	--	--	--	--
DEC 19...	--	--	--	--	--	--	--	--	--	--	--
JAN 18...	--	--	--	--	--	--	--	--	--	--	--
FEB 15...	--	--	--	--	--	--	--	--	--	--	--
MAR 15...	--	--	--	--	--	--	--	--	--	--	--
APR 28...	--	--	--	--	--	--	--	--	--	--	--
MAY 24...	--	--	--	--	--	--	--	--	--	--	--
JUN 16...	8	4	2	2	1	1	0	1.0	30	20	10
AUG 02...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
SEP 27...	--	--	--	--	--	--	--	--	--	--	--

09217010 GREEN RIVER BELOW GREEN RIVER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	PCB, TOTAL (UG/L)	PCB, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	NAPH-THA-LENES, POLY-CHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	CHLOR-DANE, TOTAL (UG/L)	CHLOR-DANE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	DDD, TOTAL (UG/L)
OCT 17...	1500	E490	10.0	.0	1	.00	.00	.0	.0	0	.00
MAY 22...	0930	E2500	12.5	.0	1	.00	.00	.0	.0	1	.00

DATE	DDD, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	DDE, TOTAL (UG/L)	DDE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	DI-AZINON, TOTAL (UG/L)	DI-ELDRIN TOTAL (UG/L)	DI-ELDRIN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	ENDO-SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)
OCT 17...	.0	.00	.0	.00	.0	.00	.00	.0	.00	.00	.0
MAY 22...	.5	.00	.3	.00	.0	.00	.00	.0	.00	.00	.0

DATE	ETHION, TOTAL (UG/L)	HEPTA-CHLOR, TOTAL (UG/L)	HEPTA-CHLOR, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	HEPTA-CHLOR EPOXIDE TOTAL (UG/L)	HEPTA-CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	MALA-THION, TOTAL (UG/L)	METHYL PARA-THION, TOTAL (UG/L)	METHYL TRI-THION, TOTAL (UG/L)
OCT 17...	.00	.00	.0	.00	.0	.00	.0	.00	.00	.00
MAY 22...	.00	.00	.0	.00	.0	.00	.0	.00	.00	.00

DATE	PARA-THION, TOTAL (UG/L)	TOX-APHENE, TOTAL (UG/L)	TOXA-PHENE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	TOTAL TRI-THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4-D, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	2,4,5-T TOTAL (UG/L)	2,4,5-T TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	SILVEX, TOTAL (UG/L)	SILVEX, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)
OCT 17...	.00	0	0	.00	.00	--	.00	--	.00	--
MAY 22...	.00	0	0	.00	.03	0	.00	0	.00	.0

DATE	TOTAL DICAMBA (UG/L)	DICAMBA IN BOTTOM MA-TERIAL (UG/KG)	TOTAL PICLORAM (UG/L)	PICLORAM IN BOTTOM MA-TERIAL (UG/KG)
MAY 22...	.00	0	.00	0

09217010 GREEN RIVER BELOW GREEN RIVER, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO SEPTEMBER 1978

DATE	OCT 15,77		NOV 29,77		DEC 19,77		JAN 18,78		FEB 15,78		MAR 15,78	
TIME	1000		0845		1540		1720		1615		1650	
TOTAL CELLS/ML	5900		1300		1600		1300		870		1500	
DIVERSITY: DIVISION	1.3		1.4		1.5		0.1		0.1		0.1	
.CLASS	1.3		1.4		1.5		0.1		0.1		0.1	
..ORDER	1.5		2.3		1.7		0.4		0.3		0.6	
...FAMILY	2.0		3.5		2.2		2.2		2.3		2.3	
....GENUS	2.7		3.9		2.2		2.3		2.3		2.8	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)												
.CHLOROPHYCEAE												
..CHLOROCOCCALES												
...CHARACIACEAE												
....SCHROEDERIA	96	2	--	-	39	2	--	-	--	-	--	-
...COELASTRACEAE												
....COELASTRUM	--	-	--	-	--	-	--	-	--	-	--	-
...MICRACTINIACEAE												
....GOLENKINIA	--	-	28	2	810#	51	--	-	--	-	--	-
....MICRACTINIUM	--	-	37	3	--	-	7	1	--	-	--	-
...OOCYSTACEAE												
....ANKISTRODESMUS	*	0	100	8	--	-	--	-	--	-	--	-
....KIRCHNERIELLA	--	-	--	-	--	-	--	-	--	-	--	-
....OOCYSTIS	96	2	--	-	--	-	--	-	--	-	--	-
....SELENASTRUM	--	-	--	-	--	-	--	-	9	1	--	-
...SCENEDESMACEAE												
....CRUCIGENIA	--	-	--	-	--	-	--	-	--	-	--	-
....SCENEDESMUS	290	5	110	9	52	3	7	1	--	-	--	-
..TETRASPORALES												
...PALMELLACEAE												
....SPHAEROCYSTIS	--	-	--	-	--	-	--	-	--	-	--	-
..VOLVOCALES												
...CHLAMYDOMONADACEAE												
....CHLAMYDOMONAS	72	1	100	8	--	-	--	-	--	-	--	-
CHRYSOPHYTA												
.BACILLARIOPHYCEAE												
..CENTRALES												
...COSCINODISCACEAE												
....COSCINODISCUS	*	0	--	-	--	-	--	-	--	-	--	-
....CYCLOTELLA	--	-	190	15	130	8	91	7	34	4	140	9
....MELOSIRA	--	-	--	-	--	-	--	-	--	-	--	-
....STEPHANODISCUS	48	1	47	4	26	2	--	-	--	-	--	-
..PENNALES												
...ACHNANTHACEAE												
....ACHNANTHES	*	0	--	-	--	-	14	1	--	-	27	2
....COCCONEIS	--	-	--	-	--	-	--	-	26	3	--	-
....RHOICOSPHENIA	--	-	--	-	--	-	--	-	--	-	--	-
...CYMBELLACEAE												
....AMPHORA	--	-	--	-	--	-	7	1	--	-	--	-
....CYMBELLA	--	-	28	2	--	-	7	1	17	2	27	2
....EPITHEMIA	*	0	28	2	--	-	--	-	9	1	54	4
...DIATOMACEAE												
....DIATOMA	--	-	47	4	--	-	490#	37	17	2	54	4
...FRAGILARIACEAE												
....ASTERIONELLA	--	-	--	-	--	-	--	-	--	-	14	1
....FRAGILARIA	1300#	22	--	-	78	5	490#	37	--	-	180	12
....SYNEDRA	48	1	28	2	--	-	--	-	260#	30	560#	38
...GOMPHONEMATACEAE												
....GOMPHONEMA	--	-	37	3	--	-	14	1	34	4	68	5
...NAVICULACEAE												
....CALONEIS	*	0	28	2	--	-	--	-	--	-	--	-
....GYROSIGMA	--	-	--	-	--	-	7	1	--	-	--	-
....NAVICULA	140	2	140	11	180	11	49	4	94	11	220	15
....NEIDIUM	--	-	37	3	--	-	--	-	--	-	--	-
....PINNULARIA	--	-	--	-	--	-	--	-	--	-	--	-
...NITZSCHIACEAE												
....NITZSCHIA	260	4	100	8	--	-	100	8	360#	41	120	8
...SURIRELLACEAE												
....SURIRELLA	48	1	--	-	--	-	28	2	9	1	--	-
.CHRYSOPHYCEAE												
..CHRYSOMONADALES												
...OCHROMONADACEAE												
....OCHROMONAS	--	-	--	-	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

09217010 GREEN RIVER BELOW GREEN RIVER, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

PHYTOPLANKTON ANALYSES, OCTUBER 1977 TO SEPTEMBER 1978

DATE	OCT 15,77		NOV 29,77		DEC 19,77		JAN 18,78		FEB 15,78		MAR 15,78	
TIME	1000		0845		1540		1720		1615		1650	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CYANOPHYTA (BLUE-GREEN ALGAE)												
.CYANOPHYCEAE												
..CHROOCOCCALES												
...CHROOCOCCACEAE												
....ANACYSTIS	--	-	75	6	--	-	--	-	--	-	--	-
..HORMOGONALES												
...NOSTOCACEAE												
....ANABAENA	1300#	21	110	9	--	-	--	-	--	-	--	-
....APHANIZOMENON	2100#	36	--	-	--	-	--	-	--	-	--	-
...OSCILLATORIACEAE												
....LYNGBYA	--	-	--	-	--	-	--	-	--	-	--	-
....OSCILLATORIA	--	-	--	-	260#	16	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)												
.EUGLENOPHYCEAE												
..EUGLENALES												
...EUGLENACEAE												
....EUGLENA	*	0	--	-	13	1	--	-	--	-	--	-
....TRACHELOMONAS	--	-	--	-	--	-	--	-	--	-	27	2
PYRRHOPHYTA (FIRE ALGAE)												
.DINOPHYCEAE												
..GYMNODINIALES												
...GYMNODINIACEAE												
....GYMNODINIUM	--	-	--	-	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

09217010 GREEN RIVER BELOW GREEN RIVER, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO SEPTEMBER 1978

DATE	APR 28,78	MAY 24,78	JUN 16,78	AUG 2,78	AUG 30,78	SEP 27,78
TIME	1715	1750	1800	1600	1730	1710
TOTAL CELLS/ML	1300	1500	1000	1500	710	910
DIVERSITY: DIVISION	0.7	1.2	1.1	1.4	0.8	1.3
.CLASS	0.7	1.2	1.1	1.5	0.8	1.3
..ORDER	1.2	2.0	1.5	2.2	1.8	1.4
...FAMILY	3.1	2.8	2.8	2.9	2.8	2.6
....GENUS	3.3	2.9	3.1	3.4	3.2	3.0

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)												
.CHLOROPHYCEAE												
..CHLOROCOCCALES												
...CHARACIACEAE												
....SCHROEDERIA	--	-	--	-	--	-	66	5	4	1	--	-
...COELASTRACEAE												
....COELASTRUM	--	-	--	-	--	-	--	-	53	7	--	-
...MICRACTINIACEAE												
....GOLENKINIA	--	-	--	-	--	-	--	-	--	-	--	-
....MICRACTINIUM	170	13	--	-	--	-	--	-	--	-	230#	25
...OOCYSTACEAE												
....ANKISTRODESMUS	--	-	--	-	--	-	--	-	37	5	86	10
....KIRCHNERIELLA	--	-	--	-	--	-	44	3	--	-	--	-
....OOCYSTIS	--	-	--	-	--	-	22	2	--	-	130	14
....SELENASTRUM	--	-	32	2	--	-	--	-	--	-	14	2
...SCENEDESMACEAE												
....CRUCIGENIA	--	-	--	-	--	-	--	-	16	2	--	-
....SCENEDESMUS	76	6	64	4	--	-	--	-	16	2	--	-
..TETRASPORALES												
...PALMELLACEAE												
....SPHAEROCYSTIS	--	-	--	-	23	2	--	-	16	2	--	-
..VOLVOCALES												
...CHLAMYDOMONADACEAE												
....CHLAMYDOMONAS	--	-	--	-	--	-	66	5	4	1	--	-
CHRYSOPHYTA												
.BACILLARIOPHYCEAE												
..CENTRALES												
...COSCINODISCACEAE												
....COSCINODISCUS	--	-	--	-	--	-	--	-	--	-	--	-
....CYCLOTELLA	130	10	80	5	23	2	44	3	37	5	29	3
....MELOSIRA	--	-	--	-	93	9	380#	26	240#	34	--	-
....STEPHANODISCUS	38	3	--	-	--	-	--	-	--	-	--	-
..PENNALES												
...ACHNANTHACEAE												
....ACHNANTHES	19	1	--	-	--	-	--	-	8	1	29	3
....COCCONEIS	--	-	32	2	23	2	66	5	120#	17	160#	17
....RHOICOSPHENIA	--	-	16	1	--	-	--	-	4	1	--	-
...CYMBELLACEAE												
....AMPHORA	--	-	--	-	--	-	--	-	--	-	--	-
....CYMBELLA	110	9	64	4	120	11	22	2	4	1	43	5
....EPITHEMIA	19	1	16	1	--	-	22	2	61	9	--	-
...DIATOMACEAE												
....DIATOMA	190	15	48	3	46	4	89	6	--	-	--	-
...FRAGILARIACEAE												
....ASTERIONELLA	--	-	--	-	--	-	44	3	--	-	--	-
....FRAGILARIA	190	15	--	-	140	13	--	-	--	-	14	2
....SYNEDRA	19	1	--	-	23	2	--	-	12	2	--	-
...GOMPHONEMATACEAE												
....GOMPHONEMA	19	1	16	1	23	2	44	3	--	-	--	-
...NAVICULACEAE												
....CALONEIS	--	-	--	-	--	-	--	-	--	-	--	-
....GYROSIGMA	--	-	--	-	--	-	--	-	--	-	--	-
....NAVICULA	130	10	96	6	120	11	89	6	53	7	120	13
....NEIDIUM	--	-	--	-	--	-	--	-	--	-	--	-
....PINNULARIA	--	-	--	-	46	4	--	-	--	-	--	-
...NITZSCHIACEAE												
....NITZSCHIA	150	12	190	13	23	2	--	-	12	2	--	-
...SURIRELLACEAE												
....SURIRELLA	--	-	--	-	--	-	--	-	--	-	--	-
.CHRYSOPHYCEAE												
..CHRYSOMONADALES												
...OCHROMONADACEAE												
....OCHROMONAS	--	-	--	-	--	-	22	2	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

09217010 GREEN RIVER BELOW GREEN RIVER, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO SEPTEMBER 1978

DATE	APR 28,78		MAY 24,78		JUN 16,78		AUG 2,78		AUG 30,78		SEP 27,78	
TIME	1715		1750		1800		1600		1730		1710	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CYANOPHYTA (BLUE-GREEN ALGAE)												
.CYANOPHYCEAE												
..CHROOCOCCALES												
...CHROOCOCCACEAE												
....ANACYSTIS	--	-	400#	26	--	-	--	-	--	-	58	6
..HORMOGONALES												
...NOSTOCACEAE												
....ANABAENA	--	-	--	-	--	-	240#	20	--	-	--	-
....APHANIZOMENON	--	-	--	-	--	-	160	11	--	-	--	-
...OSCILLATORIACEAE												
....LYNGBYA	--	-	480#	31	--	-	--	-	--	-	--	-
....OSCILLATORIA	--	-	--	-	350#	33	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)												
.EUGLENOPHYCEAE												
..EUGLENALES												
...EUGLENACEAE												
....EUGLENA	--	-	--	-	--	-	--	-	--	-	--	-
....TRACHELOMONAS	--	-	--	-	--	-	--	-	4	1	--	-
PYRRHOPHYTA (FIRE ALGAE)												
.DINOPHYCEAE												
..GYMNODINIALES												
...GYMNODINIACEAE												
....GYMNODINIUM	--	-	--	-	--	-	--	-	4	1	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

09217010 GREEN RIVER BELOW GREEN RIVER, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

MAY 24, 1978
1750 HOURS

PERIPHYTON IDENTIFICATION

_ORGANISM__NAME_______________	_COMMON__NAME_______
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...ACHNANTHACEAE	
& ....ACHNANTHES	
...GOMPHONEMATACEAE	
....GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
....NAVICULA	
...NITZSCHIACEAE	
....NITZSCHIA	
...SURIRELLACEAE	
....SURIRELLA	

AUG. 2, 1978
1600 HOURS

IDENTIFICATION OF PERIPHYTON

_ORGANISM__NAME_______________	_COMMON__NAME_______
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..ULOTRICHALES	
...CHAETOPHORACEAE	
....STIGEOCLONIUM	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...ACHNANTHACEAE	
....ACHNANTHES	
& ....COCCONEIS	
...CYMBELLACEAE	
& ....EPITHEMIA	
...DIATOMACEAE	
....DIATOMA	
...GOMPHONEMATACEAE	
....GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
....NEIDIUM	
CYANOPHYTA	BLUE-GREEN ALGAE
.CYANOPHYCEAE	
..HORMOGONALES	FILAMENTOUS BL-GREEN
...OSCILLATORIACEAE	
& ....LYNGBYA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
SAMPLING METHOD: PLASTIC SLIDES, TIMED SAMPLING INTERVAL
ANALYSIS METHOD: GLASS CHAMBER(12MM CIRC), 200-X MICROSCOPE

09217900 BLACKS FORK NEAR ROBERTSON, WY

LOCATION.--Lat 40°57'53", long 110°34'38", in NW¼SW¼ sec.27, T.3 N., R.12 E., Summit County, UT, Hydrologic Unit 14140107, on left bank 1 mi (2 km) downstream from East Fork, 2.5 mi (4.0 km) south of Utah-Wyoming State line, and 17 mi (27 km) south of Robertson.

DRAINAGE AREA.--130 mi² (337 km²), approximately.

PERIOD OF RECORD.--October 1937 to July 1939 (published as "at Blacks Fork Ranger Station"), July 1966 to current year.

GAGE.--Water-stage recorder. Datum of gage is 8,804.7 ft (2,683.67 m), National Geodetic Vertical Datum of 1929, (levels by Bureau of Reclamation). Prior to July 29, 1966, water-stage recorder at site 0.5 mi (0.8 km) downstream at different datum.

REMARKS.--Records good except those for winter period and period of no gage-height record, Nov. 3 to Dec. 5, which are poor. No diversion above station.

AVERAGE DISCHARGE.--13 years (water years 1938, 1967-78), 160 ft³/s (4.53 m³/s), 115,900 acre-ft/yr (143 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,160 ft³/s (61.2 m³/s) June 6, 1968, July 11, 1975; maximum gage height, 4.91 ft (1.500 m) June 6, 1968; minimum daily discharge, 5.5 ft³/s (0.16 m³/s) Jan. 7, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,000 ft³/s (28.3 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
June 15	0200	*1,890	53.5	3.57	1.088

Minimum daily discharge, 14 ft³/s (0.40 m³/s) Feb. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	23	22	20	24	16	45	64	555	687	133	46
2	36	22	22	22	24	15	43	71	583	625	120	45
3	36	24	24	22	24	15	45	72	668	560	110	43
4	35	28	27	22	22	15	51	78	649	504	104	42
5	34	30	25	22	22	16	43	71	619	461	99	42
6	34	28	23	22	22	16	48	58	631	435	95	41
7	33	26	24	22	22	16	45	65	781	410	93	42
8	33	23	25	22	22	17	43	62	866	405	91	55
9	33	20	23	22	21	20	46	64	1150	396	86	45
10	33	21	22	22	20	24	51	82	1380	376	82	41
11	32	24	23	22	20	23	55	86	1340	363	80	45
12	31	26	24	22	20	22	65	84	1270	349	84	52
13	31	25	25	22	19	22	64	113	1450	301	101	51
14	30	25	26	24	18	21	60	203	1620	289	110	48
15	28	25	28	24	17	21	62	310	1590	273	104	45
16	28	27	27	24	16	23	65	335	1450	277	91	42
17	26	25	25	24	15	26	58	253	1130	277	76	48
18	26	24	23	24	14	30	64	231	1050	257	76	72
19	26	22	21	23	15	34	67	216	986	250	72	49
20	26	20	20	22	15	37	60	246	1040	238	65	54
21	32	18	20	22	16	37	51	293	1110	216	64	55
22	31	19	20	23	16	36	51	363	1210	199	64	57
23	26	22	22	23	17	33	49	493	1160	180	62	54
24	26	23	24	24	17	32	52	538	1200	167	57	48
25	26	25	26	24	18	30	65	499	1120	152	52	46
26	26	27	28	24	18	32	84	488	866	150	52	43
27	26	28	28	25	18	34	84	461	781	144	51	41
28	24	27	26	26	16	36	76	488	774	141	51	39
29	26	25	26	26	---	38	65	589	788	138	51	38
30	24	23	24	26	---	40	65	625	713	136	49	37
31	24	---	24	24	---	42	---	572	---	133	48	---
TOTAL	917	725	747	716	528	819	1722	8173	30530	9489	2473	1406
MEAN	29.6	24.2	24.1	23.1	18.9	26.4	57.4	264	1018	306	79.8	46.9
MAX	36	30	28	26	24	42	84	625	1620	687	133	72
MIN	24	18	20	20	14	15	43	58	555	133	48	37
AC-FT	1820	1440	1480	1420	1050	1620	3420	16210	60560	18820	4910	2790

CAL YR 1977 TOTAL 29057.4 MEAN 79.6 MAX 800 MIN 5.5 AC-FT 57640
WTR YR 1978 TOTAL 58245.0 MEAN 160 MAX 1620 MIN 14 AC-FT 115500

09218500 BLACKS FORK NEAR MILLBURNE, WY

LOCATION.--Lat 41°01'54", long 110°34'43", in NW¼NE¼SW¼ sec.11, T.12 N., R.117 W., Uinta County, Hydrologic Unit 14040107, on left bank 0.4 mi (0.6 km) downstream from Meeks Cabin Dam, 2.7 mi (4.3 km) north of Utah-Wyoming State line, and 17 mi (27.4 km) southwest of Millburne.

DRAINAGE AREA.--152 mi^2 (394 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1939 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 929: 1940.

GAGE.--Water-stage recorder. Datum of gage is 8,512.27 ft (2,594.540 m), National Geodetic Vertical Datum of 1929, Bureau of Reclamation datum. Prior to Oct. 1, 1971, at several sites about 2.0 mi (3.2 km) downstream at various datums.

REMARKS.--Records fair. Flow completely regulated by Meeks Cabin Reservoir, capacity, 32,470 acre-ft (40.0 hm^3), since June 1971. No diversion above station.

AVERAGE DISCHARGE.--39 years, 160 ft^3/s (4.531 m^3/s), 115,900 acre-ft/yr (143 hm^3/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,530 ft^3/s (71.6 m^3/s) June 7, 1957, from rating curve extended above 1,500 ft^3/s (42.5 m^3/s); maximum gage height, 6.46 ft (1.969 m) in gage well, 6.76 ft (2.060 m) from floodmarks, June 12, 1965, site and datum then in use; minimum daily discharge, 3.7 ft^3/s (0.10 m^3/s) Nov. 12, 1970, due to regulation by Meeks Cabin Dam.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,330 ft^3/s (37.7 m^3/s) June 25, gage height 4.42 ft (1.347 m); minimum daily, 6.7 ft^3/s (0.19 m^3/s) Feb. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	23	11	8.6	7.4	7.8	8.2	9.4	732	822	310	219
2	38	23	11	8.6	7.4	7.8	8.2	9.4	741	804	244	219
3	35	23	11	8.6	7.4	7.8	8.2	9.0	741	804	244	219
4	34	23	11	8.6	7.0	7.8	8.2	9.0	741	795	241	219
5	34	23	11	8.6	6.7	7.8	8.2	9.0	644	696	241	213
6	34	23	11	8.6	7.0	7.8	8.2	9.0	588	660	241	204
7	34	23	11	8.6	7.0	7.8	8.2	9.0	596	413	241	204
8	34	21	9.4	8.4	7.0	7.8	8.6	9.0	596	283	241	204
9	34	19	8.6	8.4	7.0	7.8	8.6	9.0	682	283	241	197
10	34	19	8.2	8.4	7.0	7.8	8.6	9.0	759	283	241	188
11	31	19	8.2	8.2	7.0	7.8	8.6	9.4	768	283	241	185
12	27	19	8.6	8.2	7.0	7.8	8.6	9.4	750	287	237	155
13	27	19	8.6	8.2	7.4	7.8	8.6	9.4	750	287	237	142
14	27	16	8.6	8.0	7.4	8.2	8.6	9.8	777	287	237	142
15	27	13	8.6	8.0	7.4	8.2	8.6	10	890	291	213	142
16	27	13	8.6	8.0	7.4	8.2	8.6	275	973	283	194	142
17	27	13	8.6	7.8	7.4	8.2	8.6	432	984	283	194	142
18	27	13	8.6	7.8	7.8	8.2	8.6	432	962	350	194	142
19	27	13	8.6	7.8	7.8	8.2	8.6	432	890	462	194	113
20	27	13	8.6	7.6	7.8	8.2	8.6	432	831	498	194	96
21	27	13	8.6	7.6	7.8	8.2	8.6	432	850	504	191	96
22	27	13	8.6	7.4	7.4	8.2	8.6	432	950	468	180	96
23	27	12	8.6	7.4	7.4	8.2	9.0	432	1120	468	168	94
24	27	11	8.6	7.2	7.4	8.2	9.4	432	1200	420	168	94
25	25	11	8.6	7.2	7.4	8.2	9.4	538	1250	346	168	94
26	23	11	8.6	7.2	7.4	8.2	9.8	669	1100	414	168	83
27	23	11	8.6	7.0	7.4	8.2	9.8	687	930	414	168	77
28	23	11	8.6	7.4	7.4	8.2	9.8	714	860	414	166	77
29	23	11	8.6	7.4	---	8.2	9.4	732	850	408	197	77
30	23	11	8.6	7.4	---	8.2	9.4	732	840	408	223	77
31	23	---	8.6	7.4	---	8.2	---	732	---	408	219	---
TOTAL	897	486	283.4	245.6	204.9	249.0	262.4	8673.8	25345	13826	6636	4352
MEAN	28.9	16.2	9.14	7.92	7.32	8.03	8.75	280	845	446	214	145
MAX	41	23	11	8.6	7.8	8.2	9.8	732	1250	822	310	219
MIN	23	11	8.2	7.0	6.7	7.8	8.2	9.0	588	283	166	77
AC-FT	1780	964	562	487	406	494	520	17200	50270	27420	13160	8630

CAL YR 1977 TOTAL 29611.7 MEAN 81.1 MAX 900 MIN 6.1 AC-FT 58730
WTR YR 1978 TOTAL 61461.1 MEAN 168 MAX 1250 MIN 6.7 AC-FT 121900

09218500 BLACKS FORK NEAR MILLBURNE, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1969-70, 1975 to September 1978 (discontinued).

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	UXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
OCT											
03...	1420	33	110	--	9.0	3	--	--	--	--	--
20...	1430	27	130	8.0	6.0	2	9.7	61	8	17	4.5
31...	1310	23	95	--	3.5	2	--	--	--	--	--
DEC											
02...	1130	11	150	--	2.5	1	--	--	--	--	--
JAN											
26...	1225	7.0	170	--	1.5	1	--	--	--	--	--
MAR											
01...	1455	7.8	190	--	1.5	1	--	--	--	--	--
30...	1500	8.2	--	--	6.0	--	--	91	14	25	7.0
APR											
20...	1435	8.6	210	--	3.0	1	--	--	--	--	--
MAY											
24...	1530	432	140	--	6.0	6	--	65	7	17	5.4
JUN											
07...	1155	596	110	--	7.0	5	--	--	--	--	--
15...	1230	950	60	--	7.5	8	--	50	18	16	2.5
20...	1430	777	60	--	7.5	7	--	--	--	--	--
JUL											
14...	1200	271	30	--	11.5	3	--	--	--	--	--
27...	1410	420	60	--	10.5	--	--	28	5	8.0	2.0
AUG											
31...	1555	219	70	--	13.0	1	--	--	--	--	--

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BUNATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
OCT											
03...	--	--	--	--	--	--	--	--	--	--	--
20...	1.3	.1	.5	65	0	53	5.9	.9	.0	4.2	67
31...	--	--	--	--	--	--	--	--	--	--	--
DEC											
02...	--	--	--	--	--	--	--	--	--	--	--
JAN											
26...	--	--	--	--	--	--	--	--	--	--	--
MAR											
01...	--	--	--	--	--	--	--	--	--	--	--
30...	1.4	.1	.6	94	0	77	13	1.4	--	5.7	101
APR											
20...	--	--	--	--	--	--	--	--	--	--	--
MAY											
24...	2.0	.1	.6	70	0	57	9.5	1.8	.0	5.9	77
JUN											
07...	--	--	--	--	--	--	--	--	--	--	--
15...	1.6	.1	.6	39	0	32	4.8	1.5	.0	5.4	62
20...	--	--	--	--	--	--	--	--	--	--	--
JUL											
14...	--	--	--	--	--	--	--	--	--	--	--
27...	1.0	.1	.4	28	0	23	3.9	1.1	.0	3.9	35
AUG											
31...	--	--	--	--	--	--	--	--	--	--	--

09218500 BLACKS FORK NEAR MILLBURNE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)
OCT											
03...	--	--	--	--	--	--	--	--	--	--	--
20...	.09	4.88	.06	.00	.00	.00	.15	.02	.15	.13	.02
31...	--	--	--	--	--	--	--	--	--	--	--
DEC											
02...	--	--	--	--	--	--	--	--	--	--	--
JAN											
26...	--	--	--	--	--	--	--	--	--	--	--
MAR											
01...	--	--	--	--	--	--	--	--	--	--	--
30...	.14	2.24	.10	--	--	--	--	--	.31	.00	.31
APR											
20...	--	--	--	--	--	--	--	--	--	--	--
MAY											
24...	.10	89.8	--	--	--	--	--	--	--	--	--
JUN											
07...	--	--	--	--	--	--	--	--	--	--	--
15...	.08	159	2.3	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
JUL											
14...	--	--	--	--	--	--	--	--	--	--	--
27...	.05	39.7	.07	--	--	--	--	--	--	--	--
AUG											
31...	--	--	--	--	--	--	--	--	--	--	--

DATE	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	PHYTO-PLANK-TON, TOTAL (CELLS PER ML)	IN-VERTE-BRATES, BENTHIC WET WT. (G/SQ METER)	BIOMASS CHLORO-PHYLL RATIO PLANK-TON (UNITS)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
OCT											
03...	--	--	--	--	--	--	--	--	--	4	.36
20...	.01	.01	.01	.03	440	.3	10750	.093	.024	6	.44
31...	--	--	--	--	--	--	--	--	--	6	.37
DEC											
02...	--	--	--	--	--	--	--	--	--	5	.15
JAN											
26...	--	--	--	--	--	--	--	--	--	5	.09
MAR											
01...	--	--	--	--	--	--	--	--	--	4	.08
30...	.00	--	.02	.06	--	--	--	--	--	--	--
APR											
20...	--	--	--	--	--	--	--	--	--	7	.16
MAY											
24...	.00	.00	--	--	--	--	--	--	--	19	22
JUN											
07...	--	--	--	--	--	--	--	--	--	8	13
15...	.02	.01	--	--	--	--	--	--	--	11	28
20...	--	--	--	--	--	--	--	--	--	7	15
JUL											
14...	--	--	--	--	--	--	--	--	--	8	5.9
27...	.00	.00	--	--	--	--	--	--	--	10	11
AUG											
31...	--	--	--	--	--	--	--	--	--	4	2.4

09218500 BLACKS FORK NEAR MILLBURNE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, DIS-SOLVED (UG/L AS CU)
OCT								
20...	1430	0	0	0	20	0	0	1
MAR								
30...	1500	--	--	--	--	--	--	--
MAY								
24...	1530	--	--	--	20	--	--	--
JUN								
15...	1230	--	--	--	30	--	--	--
JUL								
27...	1410	--	--	--	40	--	--	--

DATE	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT								
20...	50	0	60	.0	0	0	0	10
MAR								
30...	20	--	--	--	--	--	--	--
MAY								
24...	60	--	10	--	--	--	--	--
JUN								
15...	130	--	10	--	--	--	--	--
JUL								
27...	40	--	10	--	--	--	--	--

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

PHYTOPLANKTON ANALYSES

DATE	OCT 20,77
TIME	1430
TOTAL CELLS/ML	440
DIVERSITY: DIVISION	0.0
.CLASS	0.5
..ORDER	1.4
...FAMILY	1.7
....GENUS	1.7

ORGANISM	CELLS /ML	PER-CENT
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..CENTRALES		
...COSCINODISCACEAE		
....CYCLOTELLA	200#	45
..PENNALES		
...FRAGILARIACEAE		
....ASTERIONELLA	160#	35
...NITZSCHIACEAE		
....NITZSCHIA	35	8
.CHRYSOPHYCEAE		
..CHRYSOMONADALES		
...CHROMULINACEAE		
....KEPHYRION	52	12

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

09218500 BLACKS FORK NEAR MILLBURNE, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

OCT. 20, 1977
1430 HOURS

IDENTIFICATION OF PERIPHYTON

_ORGANISM__NAME	_COMMON__NAME
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..ULOTRICHALES	
...ULOTRICHACEAE	
& ....BINUCLEARIA	
& ....ULOTHRIX	
..ZYGNEMATALES	
...DESMIDIACEAE	PLACODERM DESMIDS
....CLOSTERIUM	
....COSMARIUM	
...ZYGNEMATACEAE	
....MOUGEOTIA	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..CENTRALES	CENTRIC
...COSCINODISCACEAE	
....CYCLOTELLA	
..PENNALES	PENNATE
...ACHNANTHACEAE	
....ACHNANTHES	
...CYMBELLACEAE	
....CYMBELLA	
...DIATOMACEAE	
& ....DIATOMA	
....OPEPHORA	
...FRAGILARIACEAE	
....FRAGILARIA	
& ....SYNEDRA	
...NAVICULACEAE	NAVICULOID
....NAVICULA	
...NITZSCHIACEAE	
....NITZSCHIA	
...TABELLARIACEAE	
....TABELLARIA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

09218500 BLACKS FORK NEAR MILLBURNE, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

BENTHIC INVERTEBRATE ANALYSES

DATE	OCT 20,77
TIME	1430
TOTAL COUNT	48
DIVERSITY: PHYLUM	1.3
.CLASS	1.5
..ORDER	0.0
...FAMILY	0.0
....GENUS	0.0
....GENUS-INSECTA	0.0

ORGANISM	COUNT
ANNELIDA	
.HIRUDINEA	21
ARTHROPO(ARTHROPODS)	
.ARACHNIDA	
..ACARINA	2
.INSECTA	
..DIPTERA	
...CHIRONOMIDAE	
....ORTHOCLADIUS	4
...RHAGIONIDAE	
....ATHERIX	
.....A.VARIEGATA	4
..EPHEMEROPTERA	
...EPHEMERELLIDAE	
....EPHEMERELLA	10
..PLECOPTERA	
...CHLOROPERLIDAE	2
..TRICHOPTERA	
...HYDROPSYCHIDAE	
....ARCTOPSYCHE	1
..DIPTERA	
...CHIRONOMIDAE	
....UNKNOWN GENUS #5	1
CNIDARIA (CNIDARIANS)	
.HYDROZOA	
..HYDROIDA	
...HYDRIDAE	1
MOLLUSCA (MOLLUSCS)	
.GASTROPODA	
..BASOMMATOPHORA	
...PHYSIDAE	
....PHYSA	2

09220000 EAST FORK OF SMITH FORK NEAR ROBERTSON, WY

LOCATION.--Lat 41°03'15", long 110°23'52", in NE¼NW¼NE¼ sec.5, T.12 N., R.115 W., Uinta County, Hydrologic Unit 14040107, Wasatch National Forest, on left bank 60 ft (18 m) downstream from bridge, 1.0 mi (1.6 km) upstream from Gilbert Creek, and 9.0 mi (14.5 km) south of Robertson.

DRAINAGE AREA.--53.0 mi² (137.3 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1939 to current year (no winter records since 1971). Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 979: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 8,470 ft (2,582 m), from topographic map. Prior to July 12, 1957, at datum 3.96 ft (1.207 m) higher.

REMARKS.--Records fair. No diversion above station. Results of discharge measurements, in cubic feet per second, made during the period when station was not in operation, are given below:

Oct. 4 . . . 8.9
Mar. 29 . . . 13

AVERAGE DISCHARGE.--32 years (water years 1940-71), 47.1 ft³/s (1.334 m³/s), 34,120 acre-ft/yr (42.1 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,450 ft³/s (41.1 m³/s) June 10, 1965, gage height, 6.75 ft (2.057 m); no flow part of each day Apr. 17-22, 24, 25, 1950; minimum gage height, 3.26 ft (0.994 m), present datum, Apr. 22, 1950.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 300 ft³/s (8.50 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
June 11	0430	750	21.2	6.05	1.844	June 25	0730	488	13.8	5.65	1.722
June 14	0530	*987	28.0	6.33	1.929						

Minimum daily discharge during period of operation, 4.6 ft³/s (0.13 m³/s) Sept. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							14	20	198	206	32	9.0
2							14	23	206	189	28	4.6
3							13	24	254	165	25	13
4							13	23	234	132	24	8.7
5							12	21	220	120	22	8.0
6							12	20	206	112	21	7.8
7							13	22	284	104	19	7.6
8							13	21	310	97	18	9.0
9							14	21	410	93	18	9.0
10							15	25	551	87	16	8.0
11							19	29	601	85	16	8.7
12							19	29	521	85	15	9.4
13							19	35	588	76	22	8.0
14							17	51	734	70	24	5.1
15							17	87	696	68	24	6.5
16							18	100	582	68	21	6.9
17							16	76	440	76	17	8.7
18							18	64	351	66	18	9.8
19							18	58	342	59	16	9.0
20							19	68	324	54	15	9.8
21							17	85	342	50	14	10
22							19	95	385	48	13	11
23							19	138	351	43	14	13
24							19	153	346	42	12	11
25							20	144	395	37	11	12
26							25	144	266	36	9.4	10
27							24	144	223	33	7.8	7.6
28							21	144	223	33	14	7.1
29							19	189	246	31	10	11
30							20	223	234	30	9.8	9.0
31							---	209	---	29	10	---
TOTAL	---	---	---	---	---	---	516	2485	11063	2424	536.0	268.3
MEAN	---	---	---	---	---	---	17.2	80.2	369	78.2	17.3	8.94
MAX	---	---	---	---	---	---	25	223	734	206	32	13
MIN	---	---	---	---	---	---	12	20	198	29	7.8	4.6
AC-FT	---	---	---	---	---	---	1020	4930	21940	4810	1060	532

09220000 EAST FORK OF SMITH FORK NEAR ROBERTSON, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to September 1978 (discontinued).

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
OCT 21...	1020	9.6	88	8.4	4.0	8	38	1	12	1.9	2.0
MAR 29...	1115	13	140	--	.0	35	--	--	--	--	--
APR 20...	1635	21	110	--	8.0	55	--	--	--	--	--
MAY 25...	1600	128	65	--	7.0	50	29	5	9.2	1.5	2.5
JUL 05...	1445	126	75	--	11.5	8	--	--	--	--	--
AUG 04...	1510	24	60	--	18.0	3	--	--	--	--	--
SEP 07...	1355	7.6	72	--	16.0	3	--	--	--	--	--

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 105 DEG. C, DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
OCT 21...	.1	.6	45	0	37	3.0	1.1	.0	5.7	53	49
MAR 29...	--	--	--	--	--	--	--	--	--	--	--
APR 20...	--	--	--	--	--	--	--	--	--	--	--
MAY 25...	.2	.9	27	1	24	8.7	2.7	.0	7.1	--	47
JUL 05...	--	--	--	--	--	--	--	--	--	--	--
AUG 04...	--	--	--	--	--	--	--	--	--	--	--
SEP 07...	--	--	--	--	--	--	--	--	--	--	--

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)
OCT 21...	.07	1.27	7	.01	.10	.04	.05	.11	.13	.21
MAR 29...	--	--	--	--	--	--	--	--	--	--
APR 20...	--	--	--	--	--	--	--	--	--	--
MAY 25...	.06	16.2	--	--	--	--	--	--	--	--
JUL 05...	--	--	--	--	--	--	--	--	--	--
AUG 04...	--	--	--	--	--	--	--	--	--	--
SEP 07...	--	--	--	--	--	--	--	--	--	--

09220000 EAST FORK OF SMITH FORK NEAR ROBERTSON, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITRO-GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	PHYTO-PLANK-TON, TOTAL (CELLS PER ML)	IN-VERTE-BRATES, BENTHIC WET WT. (G/SQ METER)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L)
OCT 21...	.04	.17	.03	.00	.00	.00	230	1.4	.031	.010
MAR 29...	--	--	--	--	--	--	--	--	--	--
APR 20...	--	--	--	--	--	--	--	--	--	--
MAY 25...	--	--	.01	.00	--	--	--	--	--	--
JUL 05...	--	--	--	--	--	--	--	--	--	--
AUG 04...	--	--	--	--	--	--	--	--	--	--
SEP 07...	--	--	--	--	--	--	--	--	--	--

DATE	TIME	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, DIS-SOLVED (UG/L AS CU)
OCT 21...	1020	20	1	0	20	0	10	1
MAY 25...	1600	--	--	--	40	--	--	--

DATE	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT 21...	190	0	10	.0	0	0	0	10
MAY 25...	250	--	40	--	--	--	--	--

DATE	TIME	GROSS ALPHA, DIS-SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L)	URANIUM DIS-SOLVED, EXTRAC-TION (UG/L)
OCT 21...	1020	1.9	<.4	2.7	1.4	2.1	1.4	.08	.17

09220000 EAST FORK OF SMITH FORK NEAR ROBERTSON, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	TEMPER-ATURE (DEG C)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
OCT					
21...	1020	4.0	9.6	314	8.1
MAR					
29...	1115	.0	13	52	1.8
APR					
20...	1635	8.0	21	93	5.3
MAY					
25...	1600	7.0	128	94	32
JUL					
05...	1445	11.5	126	20	6.8
AUG					
04...	1510	18.0	24	14	.91
SEP					
07...	1355	16.0	7.6	4	.08

DATE	TIME	TEMPER-ATURE (DEG C)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	NUMBER OF SAM-PLING POINTS	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 128 MM
SEP								
07...	1355	16.0	7.6	100	2	7	25	62

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 21,77
TIME	1020
TOTAL CELLS/ML	230
DIVERSITY: DIVISION	0.8
.CLASS	0.8
..ORDER	0.9
...FAMILY	0.9
....GENUS	0.9

ORGANISM	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...OOCYSTACEAE		
....ANKISTRODESMUS	19	8
..ZYGNEMATALES		
...DESMIDIACEAE		
....CLOSTERIUM	10	4
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...NAVICULACEAE		
....NAVICULA	10	4
CYANOPHYTA (BLUE-GREEN ALGAE)		
.CYANOPHYCEAE		
..HORMOGONALES		
...NOSTOCACEAE		
....ANABAENA	190#	83

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

09220000 EAST FORK OF SMITH FORK NEAR ROBERTSON, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

OCT. 21, 1977
1020 HOURS

IDENTIFICATION OF PERIPHYTON

ORGANISM NAME	COMMON NAME
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..ULOTRICHALES	
& ...TRENTEPOHLIACEAE	
..ULVALES	
...ULVACEAE	
....ENTEROMORPHA	
..ZYGNEMATALES	
...DESMIDIACEAE	PLACODERM DESMIDS
....CLOSTERIUM	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..CENTRALES	CENTRIC
...COSCINODISCACEAE	
....MELOSIRA	
..PENNALES	PENNATE
...CYMBELLACEAE	
....EPITHEMIA	
...FRAGILARIACEAE	
....FRAGILARIA	
....SYNEDRA	
...GOMPHONEMATACEAE	
....GOMPHONEIS	
...NAVICULACEAE	NAVICULOID
....FRUSTULIA	
....NAVICULA	
....PINNULARIA	
...NITZSCHIACEAE	
....NITZSCHIA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

BENTHIC INVERTEBRATE ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 21,77
TIME	1020
TOTAL COUNT	18
DIVERSITY: PHYLUM	0.0
.CLASS	0.0
..ORDER	1.4
...FAMILY	2.7
....GENUS	2.8
....GENUS-INSECTA	2.8

ORGANISM	COUNT
ARTHROPODA (ARTHROPODS)	
.INSECTA	
..DIPTERA	
...CHIRONOMIDAE	
....CONCHAPELOPIA	2
..EPHEMEROPTERA	
...BAETIDAE	
....BAETIS	1
....PSEUDOCLOEON	1
...EPHEMERELLIDAE	
....EPHEMERELLA	6
...HEPTAGENIIDAE	
....CINYGMULA	3
...LEPTOPHLEBIIDAE	
....PARALEPTOPHLEBIA	1
..TRICHOPTERA	
...GLOSSOSOMATIDAE	
....GLOSSOSOMA	1
...LIMNEPHILIDAE	
....NEOTHREMMA	2
..PLECOPTERA	
...PERLODIDAE	
....ARCYNOPTERYX	1

09220500 WEST FORK OF SMITH FORK NEAR ROBERTSON, WY

LOCATION.--Lat 41°01'20", long 110°28'43", in SE¼NE¼NW¼ sec.15, T.12 N., R.116 W., Uinta County, Hydrologic Unit 14040107, Wasatch National Forest, on left bank 0.8 mi (1.3 km) downstream from Archie Creek and 11.6 mi (18.7 km) southwest of Robertson.

DRAINAGE AREA.--37.2 mi² (96.3 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1939 to current year (no winter records since 1971). Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 929: 1940. WSP 1343, 1733: 1943.

GAGE.--Water-stage recorder. Datum of gage is 8,615.0 ft (2,625.85 m), National Geodetic Vertical Datum of 1929. July 13, 1939, to Aug. 16, 1949, at site 75 ft (23 m) upstream at datum 2.00 ft (0.610 m) higher; Aug. 17, 1949, to June 13, 1965, at present site at datum 2.00 ft (0.610 m) higher.

REMARKS.--Records poor. No diversion above station. Results of discharge measurements, in cubic feet per second, made during period when station was not in operation, are given below:

Oct. 3 . . . 1.6
Mar. 29 . . . 5.9

AVERAGE DISCHARGE.--32 years (water years 1940-71), 21.5 ft³/s (0.609 m³/s), 15,580 acre-ft/yr (19.2 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,100 ft³/s (59.5 m³/s) June 10, 1965, gage height, 5.20 ft (1.585 m), in gage well, 5.60 ft (1.707 m), from floodmarks, present datum; minimum observed, 0.2 ft³/s (0.006 m³/s) Aug. 13, 1940, Feb. 25, 1941 (discharge measurement).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 280 ft³/s (7.93 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
May 23	1900	412	11.7	2.87	0.875	June 9	2130	*720	20.4	3.43	1.045
May 29	2100	366	10.4	2.72	0.829	June 13	2130	471	13.3	2.98	0.908
June 3	2130	318	9.01	2.60	0.792						

Minimum daily discharge, 1.0 ft³/s (0.028 m³/s) Sept. 6, 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							7.8	20	195	30	5.9	1.3
2							8.4	25	186	28	4.1	1.2
3							8.0	28	250	24	3.4	1.2
4							8.5	26	216	21	3.2	1.2
5							8.9	22	204	20	3.0	1.1
6							10	21	216	20	2.8	1.0
7							11	23	278	19	2.5	1.0
8							12	32	310	16	2.4	1.4
9							12	39	382	15	2.4	1.4
10							13	55	390	14	2.2	1.1
11							14	68	272	13	2.2	1.6
12							16	73	237	13	2.8	3.9
13							17	97	278	12	4.6	2.1
14							18	148	250	11	6.2	1.6
15							20	198	204	11	5.5	1.6
16							20	168	160	11	3.7	1.5
17							20	120	118	10	3.1	2.0
18							20	108	94	9.1	3.7	5.7
19							17	105	88	8.4	3.2	3.7
20							17	140	77	8.1	2.6	2.8
21							18	178	78	7.6	2.4	3.0
22							18	231	77	7.0	2.0	3.6
23							15	300	68	6.5	1.9	3.2
24							16	237	67	5.7	1.8	2.6
25							24	204	59	5.2	1.6	2.2
26							32	189	46	4.8	1.6	2.1
27							28	165	38	4.4	1.6	2.4
28							23	195	36	4.4	1.4	2.0
29							20	247	38	4.1	1.3	1.7
30							21	240	34	3.9	1.3	1.7
31							---	204	---	3.9	1.3	---
TOTAL	---	---	---	---	---	---	493.6	3906	4946	371.1	87.7	62.9
MEAN	---	---	---	---	---	---	16.5	126	165	12.0	2.83	2.10
MAX	---	---	---	---	---	---	32	300	390	30	6.2	5.7
MIN	---	---	---	---	---	---	7.8	20	34	3.9	1.3	1.0
AC-FT	---	---	---	---	---	---	979	7750	9810	736	174	125

09220500 WEST FORK OF SMITH FORK NEAR ROBERTSON, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to September 1978 (discontinued).

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
OCT 20...	1500	1.8	--	7.7	4.9	2	9.1	110	2	31	7.5
MAR 29...	0945	5.9	260	--	.5	2	--	--	--	--	--
APR 20...	1610	22	210	--	4.0	3	--	--	--	--	--
MAY 25...	1220	194	70	--	6.0	10	--	37	9	11	2.4
JUL 05...	1230	21	65	--	12.0	4	--	--	--	--	--
AUG 04...	1245	3.3	160	--	17.5	1	--	--	--	--	--
SEP 07...	1120	1.1	200	--	14.0	2	--	--	--	--	--

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
OCT 20...	3.5	.1	.9	130	0	110	4.3	2.4	.1	7.9	122
MAR 29...	--	--	--	--	--	--	--	--	--	--	--
APR 20...	--	--	--	--	--	--	--	--	--	--	--
MAY 25...	2.1	.2	.8	32	1	28	9.7	3.0	.1	6.7	53
JUL 05...	--	--	--	--	--	--	--	--	--	--	--
AUG 04...	--	--	--	--	--	--	--	--	--	--	--
SEP 07...	--	--	--	--	--	--	--	--	--	--	--

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)
OCT 20...	.17	.59	.02	.00	.00	.00	.14	.04	.14	.10
MAR 29...	--	--	--	--	--	--	--	--	--	--
APR 20...	--	--	--	--	--	--	--	--	--	--
MAY 25...	.07	27.8	--	--	--	--	--	--	--	--
JUL 05...	--	--	--	--	--	--	--	--	--	--
AUG 04...	--	--	--	--	--	--	--	--	--	--
SEP 07...	--	--	--	--	--	--	--	--	--	--

09220500 WEST FORK OF SMITH FORK NEAR ROBERTSON, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	PHYTOPLANKTON, TOTAL (CELLS PER ML)	INVERTEBRATES, BENTHIC WET WT. (G/SQ METER)	BIOMASS CHLOROPHYLL RATIO PLANKTON (UNITS)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L)
OCT 20...	.04	.02	.01	.01	.03	210	.1	58820	.017	.005
MAR 29...	--	--	--	--	--	--	--	--	--	--
APR 20...	--	--	--	--	--	--	--	--	--	--
MAY 25...	--	.00	.01	--	--	--	--	--	--	--
JUL 05...	--	--	--	--	--	--	--	--	--	--
AUG 04...	--	--	--	--	--	--	--	--	--	--
SEP 07...	--	--	--	--	--	--	--	--	--	--

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BORON, DISSOLVED (UG/L AS B)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)
OCT 20...	1500	10	0	100	20	0	0	0
MAY 25...	1220	--	--	--	70	--	--	--

DATE	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	ZINC, DISSOLVED (UG/L AS ZN)
OCT 20...	210	0	0	.0	0	0	0	0
MAY 25...	190	--	10	--	--	--	--	--

DATE	TIME	TEMPERATURE (DEG C)	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)
OCT 20...	1500	4.9	1.8	6	.03
MAR 29...	0945	.5	5.9	8	.13
APR 20...	1610	4.0	22	6	.36
MAY 25...	1220	6.0	194	26	14
JUL 05...	1230	12.0	21	6	.34
AUG 04...	1245	17.5	3.3	4	.04
SEP 07...	1120	14.0	1.1	7	.02

DATE	TIME	TEMPERATURE (DEG C)	STREAMFLOW, INSTANTANEOUS (CFS)	NUMBER OF SAMPLING POINTS	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 128 MM
SEP 07...	1120	14.0	1.1	100	1	8	23	65

09220500 WEST FORK OF SMITH FORK NEAR ROBERTSON, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 20,77
TIME	1500
TOTAL CELLS/ML	210
DIVERSITY: DIVISION	1.0
.CLASS	1.2
..ORDER	1.2
...FAMILY	2.0
....GENUS	2.0

ORGANISM	CELLS /ML	PER-CENT
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...DIATOMACEAE		
....DIATOMA	26	13
...FRAGILARIACEAE		
....SYNEDRA	60#	29
...NITZSCHIACEAE		
....NITZSCHIA	26	13
.CHRYSOPHYCEAE		
..CHRYSOMONADALES		
...CHROMULINACEAE		
....KEPHYRION	9	4
CYANOPHYTA (BLUE-GREEN ALGAE)		
.CYANOPHYCEAE		
..HORMOGONALES		
...NOSTOCACEAE		
....ANABAENA	86#	42

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

OCT. 20, 1977
1500 HOURS

IDENTIFICATION OF PERIPHYTON

ORGANISM NAME	COMMON NAME
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..ULOTRICHALES	
...ULOTRICHACEAE	
....BINUCLEARIA	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...CYMBELLACEAE	
....AMPHORA	
....CYMBELLA	
....EPITHEMIA	
...DIATOMACEAE	
& ....DIATOMA	
...FRAGILARIACEAE	
....FRAGILARIA	
& ....SYNEDRA	
...GOMPHONEMATACEAE	
& ....GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
....AMPHIPLEURA	
....CALONEIS	
& ....NAVICULA	
....PINNULARIA	
...NITZSCHIACEAE	
& ....NITZSCHIA	
...SURIRELLACEAE	
....CYMATOPLEURA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

BENTHIC INVERTEBRATE ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 20,77
TIME	1500
TOTAL COUNT	61
DIVERSITY: PHYLUM	0.1
.CLASS	0.8
..ORDER	1.9
...FAMILY	0.0
....GENUS	0.0
....GENUS-INSECTA	0.0
ORGANISM	COUNT
ARTHROPO(ARTHROPODS)	
.ARACHNIDA	
..ACARINA	12
.INSECTA	
..CULEOPTERA	
...ELMIDAE	
....ZAITZEVIA	1
..DIPTERA	
...CHIRONOMIDAE	
....CONCHAPELOPIA	2
....PSEUDODIAMESA	1
....RHEOTANYTARSUS	19
....STEMPELLINA	4
....TANYTARSUS	8
..EPHEMEROPTERA	
...BAETIDAE	
....PSEUDOCLOEON	6
...EPHEMERELLIDAE	
....EPHEMERELLA	2
...LEPTOPHLEBIIDAE	
....PARALEPTOPHLEBIA	1
..PLECOPTERA	
...CHLOROPERLIDAE	2
..TRICHOPTERA	
...BRACHYCENTRIDAE	
....BRACHYCENTRUS	2
CNIDARIA (CNIDARIANS)	
.HYDROZOA	
..UNKNOWN ORDER	
...UNKNOWN FAMILY	
....UNKNOWN GENUS	1

09221650 SMITHS FORK NEAR LYMAN, WY

LOCATION.--Lat 41°22'31", long 110°12'14", in SW¼SE¼SE¼ sec.12, T.16 N., R.114 W., Uinta County, Hydrologic Unit 14040107, at bridge on U.S. Highway 30S, 1.5 mi (2.4 km) downstream from Cottonwood Creek, 1.6 mi (2.6 km) upstream from bridge on Interstate Highway 80, 2.4 mi (3.9 km) upstream from mouth, and 5.7 mi (9.2 km) northeast of Lyman.

PERIOD OF RECORD.--Water years 1974 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)
OCT										
12...	1400	2.8	1500	--	12.0	15	10.6	K12	110	0
NOV										
29...	1500	14	840	--	1.0	80	10.3	K6	210	0
DEC										
20...	1645	6.0	980	--	.0	20	10.8	K8	300	17
JAN										
20...	1500	5.0	700	--	.0	25	10.2	70	210	17
FEB										
17...	1445	11	530	--	.0	20	10.2	50	210	9
MAR										
16...	1450	15	850	--	1.0	200	10.7	K16	220	5
MAY										
02...	1200	110	780	--	9.0	--	9.4	K150	190	0
25...	1550	270	400	7.8	13.0	200	8.6	230	130	2
JUN										
18...	1400	275	470	8.3	15.0	30	9.1	K160	140	0
AUG										
03...	1410	3.4	1300	8.8	22.0	4	15.1	K250	200	0
31...	1400	1.2	1700	8.7	19.0	20	9.8	150	200	0
SEP										
29...	1330	3.7	1580	8.6	13.5	10	10.5	--	240	0

K-Results based on colony count outside the acceptable range (non-ideal colony count).

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
OCT										
12...	32	7.0	330	14	3.9	280	--	230	350	160
NOV										
29...	59	15	140	4.2	2.9	270	--	220	170	81
DEC										
20...	87	21	120	3.0	3.2	350	--	290	150	86
JAN										
20...	61	15	73	2.2	2.1	240	--	200	85	75
FEB										
17...	61	15	69	2.1	2.2	250	--	210	78	52
MAR										
16...	61	16	98	2.9	3.0	260	--	210	120	70
MAY										
02...	55	12	110	3.5	5.3	260	--	210	110	70
25...	39	8.8	36	1.4	3.8	160	0	130	37	24
JUN										
18...	36	11	44	1.6	2.6	170	0	140	46	23
AUG										
03...	49	19	200	6.1	3.6	330	0	270	250	78
31...	43	22	330	10	3.6	340	13	300	430	110
SEP										
29...	62	20	270	7.6	4.0	370	5	310	400	79

09221650 SMITHS FORK NEAR LYMAN, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
OCT									
12...	.9	16	1040	1.41	7.86	.53	.06	27	.20
NOV									
29...	.5	15	617	.84	23.3	.20	.33	397	15
DEC									
20...	.4	16	656	.89	10.6	.05	.05	54	.87
JAN									
20...	.2	14	444	.60	5.99	.08	.08	98	1.3
FEB									
17...	.3	13	414	.56	12.3	.09	.09	110	3.3
MAR									
16...	.3	10	507	.69	20.5	.08	.61	956	39
MAY									
02...	.4	18	511	.70	152	.39	5.1	6240	1850
25...	.2	13	242	.33	176	.27	1.2	1110	809
JUN									
18...	.2	13	260	.35	193	.05	.09	111	82
AUG									
03...	.9	8.1	772	1.05	7.09	.07	.07	33	.30
31...	1.3	5.7	1130	1.54	3.66	.05	.08	57	.18
SEP									
29...	.9	11	1030	1.40	10.3	.02	.08	41	.41

09221680 MUD SPRING HOLLOW NEAR CHURCH BUTTE, NEAR LYMAN, WY

LOCATION.--Lat 41°23'05", long 110°11'12", in SW¼NE¼ sec.7, T.16 N., R.113 W., Uinta County, Hydrologic Unit 14040107, 0.4 mi (0.6 km) upstream from culvert on U.S. Highway 30S and 6.7 mi (10.8 km) south of Lyman.

DRAINAGE AREA.--8.83 mi² (22.7 km²).

PERIOD OF RECORD.--July 1977 to September 1978 (discontinued).

REMARKS.--Peak-flow information also collected at this site.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN					
04...	1800	6.9	300	59000	1100
AUG					
14...	1800	15	360	46100	1870

09222000 BLACKS FORK NEAR LYMAN, WY

LOCATION.--Lat 41°27'08", long 110°10'20", in SW¼NW¼SW¼ sec.15, T.17 N., R.113 W., Uinta County, Hydrologic Unit 14040107, on left bank 200 ft (61 m) downstream from bridge on old U.S. Highway 30S, 8.5 mi (13.7 km) downstream from Smiths Fork, and 11 mi (18 km) northeast of Lyman.

DRAINAGE AREA.--821 mi^2 (2,126 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1937 to December 1957, May 1962 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 1733: 1947, 1948(M), 1951(M).

GAGE.--Water-stage recorder. Altitude of gage is 6,380 ft (1,945 m), from topographic map. Oct. 21, 1937, to Dec. 31, 1957, at site 300 ft (91 m) downstream, at datum 1.51 ft (0.460 m) higher.

REMARKS.--Records fair except those for winter period and period of no gage-height record, Jan. 16 to Mar. 3, which are poor. Natural flow of stream affected by regulation from Meeks Cabin Reservoir, capacity, 32,470 acre-ft (40.0 hm^3), since June 1971, several smaller reservoirs, and diversions for irrigation of about 62,200 acres (252 km^2) above station.

AVERAGE DISCHARGE.--36 years, 148 ft^3/s (4.191 m^3/s), 107,200 acre-ft/yr (132 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,960 ft^3/s (225 m^3/s) June 11, 1965, gage height, 12.68 ft (3.865 m); no flow Aug. 8, 15-22, 1940, Dec. 26-28, 1962.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,930 ft^3/s (54.7 m^3/s) June 6, gage height, 8.48 ft (2.585 m); minimum daily, 7.9 ft^3/s (0.22 m^3/s) Oct. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.5	11	16	12	14	40	315	212	419	267	49	17
2	8.2	13	16	10	15	38	264	128	401	220	44	15
3	8.5	14	19	10	16	37	172	80	670	195	34	15
4	8.2	13	22	11	17	38	118	61	1210	172	31	16
5	7.9	12	20	12	17	40	85	61	1560	142	30	17
6	18	14	16	12	16	45	72	91	1460	160	28	17
7	38	20	17	13	18	50	61	222	794	212	26	16
8	16	17	18	12	20	58	54	356	691	235	23	16
9	12	16	15	12	18	70	47	306	619	148	23	16
10	12	18	16	13	17	90	38	235	668	89	23	14
11	10	20	17	14	20	95	35	200	844	58	22	14
12	10	23	18	14	21	90	35	182	848	39	78	22
13	10	18	17	14	19	70	40	155	790	33	89	24
14	10	13	17	13	17	60	34	138	745	31	112	23
15	9.7	14	19	13	15	55	32	178	808	42	103	21
16	9.7	13	22	13	14	52	33	238	776	52	66	24
17	9.4	8.9	18	13	12	96	34	519	740	54	48	44
18	8.8	11	15	12	12	170	27	559	700	52	48	168
19	8.5	10	13	12	13	300	27	401	639	55	46	81
20	8.8	9.4	11	12	14	282	26	348	547	47	39	58
21	9.4	8.8	10	12	17	252	24	327	519	37	32	49
22	9.4	9.5	10	11	20	222	23	327	471	37	30	40
23	9.4	11	11	10	23	235	22	312	523	47	29	36
24	9.4	13	12	9.4	28	232	20	435	603	49	27	33
25	10	15	13	8.5	32	168	19	515	696	54	23	31
26	10	17	14	9.0	40	125	20	408	776	44	19	28
27	10	19	13	11	50	108	288	373	691	35	16	27
28	10	20	11	10	45	108	276	333	471	36	16	27
29	11	18	11	11	---	110	158	327	348	39	15	23
30	13	17	12	12	---	115	250	435	333	44	16	22
31	12	---	13	13	---	120	---	487	---	44	17	---
TOTAL	345.8	436.6	472	363.9	580	3571	2649	8949	21360	2769	1202	954
MEAN	11.2	14.6	15.2	11.7	20.7	115	88.3	289	712	89.3	38.8	31.8
MAX	38	23	22	14	50	300	315	559	1560	267	112	168
MIN	7.9	8.8	10	8.5	12	37	19	61	333	31	15	14
AC-FT	686	866	936	722	1150	7080	5250	17750	42370	5490	2380	1890

CAL YR 1977 TOTAL 6713.3 MEAN 18.4 MAX 110 MIN 2.2 AC-FT 13320
WTR YR 1978 TOTAL 43652.3 MEAN 120 MAX 1560 MIN 7.9 AC-FT 86580

09222000 BLACKS FORK NEAR LYMAN, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1962 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: May 1962 to current year.
WATER TEMPERATURES: May 1962 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 5,140 micromhos Jan. 26, 1963; minimum daily, 352 micromhos May 22, 1973.
WATER TEMPERATURES: Maximum, 28.0°C July 20, 1970; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum daily, 3,940 micromhos Dec. 24; minimum daily, 554 micromhos May 25.
WATER TEMPERATURES: Maximum, 26.0°C July 27; minimum, 0.0°C on many days during October to April.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
OCT											
03...	1430	8.8	3600	--	15.5	10	--	--	--	--	--
12...	1300	10	3000	--	9.0	20	10.8	K6	1200	1000	280
21...	1500	9.4	--	--	13.5	--	--	--	1000	800	240
NOV											
02...	1330	19	3100	--	7.0	68	--	--	--	--	--
29...	1315	A18	2300	--	.5	80	10.5	K4	880	640	220
DEC											
02...	1150	A16	2600	--	1.0	40	--	--	--	--	--
20...	1415	A11	2800	--	.0	6	11.6	K1	950	650	240
27...	1430	A13	3000	--	.0	7	--	--	--	--	--
JAN											
20...	1415	A12	1700	--	.0	9	10.8	37	580	350	150
FEB											
02...	1600	A15	1550	--	.0	15	--	--	--	--	--
17...	1400	A12	1350	--	.0	15	9.4	21	580	350	150
MAR											
03...	1600	A37	1700	--	.5	35	--	--	--	--	--
16...	1400	A52	2600	--	.0	60	10.6	K32	800	550	200
23...	1315	205	1250	--	7.0	850	--	--	--	--	--
27...	1112	108	--	--	7.0	--	--	--	360	150	96
MAY											
02...	1300	135	1500	--	9.0	220	9.1	K30	390	160	100
02...	1315	135	1100	--	13.0	240	--	--	--	--	--
25...	1500	471	590	7.9	13.5	220	7.9	290	180	41	49
JUN											
09...	1030	595	780	--	11.5	100	--	--	--	--	--
18...	1300	664	850	8.2	16.0	40	8.7	250	210	62	72
JUL											
05...	1300	132	2000	--	20.0	15	--	--	--	--	--
AUG											
03...	1320	33	2200	8.2	21.0	3	8.2	K26	730	520	180
04...	1320	33	2400	--	23.0	3	--	--	--	--	--
31...	1240	18	3200	8.3	23.0	3	8.5	33	1100	950	270
SEP											
07...	1230	17	3500	--	21.5	2	--	--	--	--	--
29...	1215	23	3300	8.5	13.0	7	8.9	--	970	740	240

A-Daily mean discharge.
K-Results based on colony count outside the acceptable range (non-ideal colony count).

09222000 BLACKS FORK NEAR LYMAN, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)
OCT										
03...	--	--	--	--	--	--	--	--	--	--
12...	120	450	5.7	5.2	240	--	200	1800	98	1.2
21...	97	430	5.9	4.1	240	0	200	1500	110	1.1
NOV										
02...	--	--	--	--	--	--	--	--	--	--
29...	81	320	4.7	4.3	300	--	250	1100	85	.8
DEC										
02...	--	--	--	--	--	--	--	--	--	--
20...	84	360	5.1	4.6	360	--	300	1300	120	.9
27...	--	--	--	--	--	--	--	--	--	--
JAN										
20...	49	200	3.6	2.9	270	--	220	650	91	.6
FEB										
02...	--	--	--	--	--	--	--	--	--	--
17...	51	190	3.4	3.3	290	--	240	620	75	.6
MAR										
03...	--	--	--	--	--	--	--	--	--	--
16...	73	310	4.8	5.4	310	--	250	1000	110	.6
23...	--	--	--	--	--	--	--	--	--	--
27...	28	120	2.8	3.8	250	0	210	300	58	--
MAY										
02...	35	180	3.9	4.9	290	--	240	430	80	.5
02...	--	--	--	--	--	--	--	--	--	--
25...	14	62	2.0	3.6	170	0	140	120	26	.2
JUN										
09...	--	--	--	--	--	--	--	--	--	--
18...	7.3	77	2.3	3.1	180	0	150	220	24	.4
JUL										
05...	--	--	--	--	--	--	--	--	--	--
AUG										
03...	67	290	4.7	4.2	250	0	210	980	71	1.0
04...	--	--	--	--	--	--	--	--	--	--
31...	110	430	5.6	5.2	220	0	180	1700	100	1.1
SEP										
07...	--	--	--	--	--	--	--	--	--	--
29...	90	410	5.7	4.6	280	0	230	1500	90	1.1

DATE	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)
OCT										
03...	--	--	--	--	--	--	--	--	--	--
12...	10	2880	3.92	77.8	.05	--	--	--	--	--
21...	6.6	2510	3.41	63.7	.02	.06	.04	.05	.62	.67
NOV										
02...	--	--	--	--	--	--	--	--	--	--
29...	13	1970	2.68	95.7	.19	--	--	--	--	--
DEC										
02...	--	--	--	--	--	--	--	--	--	--
20...	12	2300	3.13	68.3	.11	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
JAN										
20...	13	1290	1.75	41.8	.22	--	--	--	--	--
FEB										
02...	--	--	--	--	--	--	--	--	--	--
17...	13	1250	1.70	40.5	.28	--	--	--	--	--
MAR										
03...	--	--	--	--	--	--	--	--	--	--
16...	11	1860	2.53	261	.23	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--
27...	11	741	1.01	216	.11	--	--	--	--	--
MAY										
02...	15	989	1.35	361	.10	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--
25...	14	373	.51	474	.07	--	--	--	--	--
JUN										
09...	--	--	--	--	--	--	--	--	--	--
18...	13	506	.69	907	.01	--	--	--	--	--
JUL										
05...	--	--	--	--	--	--	--	--	--	--
AUG										
03...	9.0	1730	2.35	154	.01	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--
31...	8.3	2730	3.71	133	.03	--	--	--	--	--
SEP										
07...	--	--	--	--	--	--	--	--	--	--
29...	8.8	2480	3.37	154	.04	--	--	--	--	--

09222000 BLACKS FORK NEAR LYMAN, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)
OCT										
03...	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	580	60	--
21...	.68	.00	.71	.03	.00	.00	.00	580	20	20
NOV										
02...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	390	50	--
DEC										
02...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	500	210	--
27...	--	--	--	--	--	--	--	--	--	--
JAN										
20...	--	--	--	--	--	--	--	280	100	--
FEB										
02...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	270	100	--
MAR										
03...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	360	130	--
23...	--	--	--	--	--	--	--	--	--	--
27...	1.4	.75	.65	2.0	--	.00	.00	--	20	--
MAY										
02...	--	--	--	--	--	--	--	250	190	--
02...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	150	300	--
JUN										
09...	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	200	360	--
JUL										
05...	--	--	--	--	--	--	--	--	--	--
AUG										
03...	--	--	--	--	--	--	--	480	330	--
04...	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	660	430	--
SEP										
07...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	590	170	--

DATE	TIME	TEMPERATURE (DEG C)	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM
OCT											
03...	1430	15.5	8.8	27	.64	85	--	--	--	--	--
NOV											
02...	1330	7.0	19	260	13	90	--	--	--	--	--
DEC											
02...	1150	1.0	A16	267	12	93	--	--	--	--	--
27...	1430	.0	A13	94	3.3	--	--	--	--	--	--
FEB											
02...	1600	.0	A15	29	1.2	--	--	--	--	--	--
MAR											
03...	1600	.5	A37	184	18	97	--	--	--	--	--
23...	1315	7.0	205	3620	2000	--	66	87	96	98	100
MAY											
02...	1315	13.0	135	1060	386	90	--	--	--	--	--
JUN											
09...	1030	11.5	595	843	1350	54	--	--	--	--	--
JUL											
05...	1300	20.0	132	217	77	68	--	--	--	--	--
AUG											
04...	1320	23.0	33	21	1.9	--	--	--	--	--	--
SEP											
07...	1230	21.5	17	34	1.6	--	--	--	--	--	--

A-Daily mean discharge.

DATE	TIME	TEMPERATURE (DEG C)	STREAMFLOW, INSTANTANEOUS (CFS)	NUMBER OF SAMPLING POINTS	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM	BED MAT. FALL DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM
SEP										
07...	1230	21.5	17	20	0	40	89	98	99	100

09222000 BLACKS FORK NEAR LYMAN, WY--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3240	3250	2400	2090	1810	1970	856	1500	778	1530	1920	3640
2	3350	2960	2410	2470	1820	1880	1030	1440	817	1730	2020	3640
3	3500	2920	2600	2510	1790	1760	1030	1490	858	1780	2200	3570
4	3560	2700	2290	2560	1750	1500	1080	1490	1000	1850	2300	3550
5	3560	2730	2260	2620	1830	1800	1170	1470	868	1930	2560	3580
6	3550	2550	2400	2590	1750	1750	1300	1500	866	1980	2510	3290
7	1980	2570	2350	2380	1690	1750	1380	1530	868	2080	2680	3360
8	2290	2420	3080	2380	1690	1480	1400	878	791	1850	2780	3490
9	3010	3250	3040	1940	1800	1360	1390	834	745	1830	2840	3600
10	3200	3180	3150	1960	1960	1220	1370	842	654	2000	2620	3450
11	3600	3310	2900	1970	1970	1210	1450	902	628	2200	2550	3170
12	3300	3170	2650	1860	1800	1450	1450	921	629	2400	2680	3260
13	3260	2860	2620	1790	1690	1660	1830	926	723	2500	1460	3210
14	3240	2850	2150	1800	1690	1960	1820	975	654	2700	1880	3110
15	3220	2490	2210	1660	1860	2280	1840	853	640	2350	2310	3220
16	3120	2540	2220	1770	1780	2360	1910	735	674	2350	2200	2830
17	3200	3070	2440	1700	1710	1990	1780	726	684	2180	2240	3000
18	3130	2930	2500	1730	1670	1160	1860	898	743	2290	2480	2590
19	3200	3060	2800	1660	1730	1170	2070	795	858	2310	2520	2830
20	3260	3240	3040	1690	1680	1100	1860	834	868	2260	2470	2620
21	3310	3440	3260	1680	1630	1140	1980	834	968	2210	2590	2540
22	3300	3670	3400	1630	1590	1030	2120	737	1070	2410	2700	2560
23	3280	3490	3400	1560	1500	1120	2130	766	1100	2420	2700	2660
24	3370	3580	3940	1730	1380	1090	2160	583	1080	2130	2870	2550
25	3360	2730	3320	1590	1250	1090	2180	554	1060	2000	2870	2550
26	3230	1890	3390	1680	1400	1120	2180	618	930	1990	2810	2670
27	3140	1920	2660	1750	1650	1120	1150	612	1030	1990	3140	2770
28	3120	2110	2730	1780	1530	1170	1040	708	1180	1870	3240	2820
29	3060	2620	2570	1780	---	1170	1070	817	1440	1850	3260	2900
30	3040	2280	2380	1720	---	1140	1120	683	1530	1870	3410	3090
31	2970	---	2310	1810	---	1120	---	740	---	1890	3380	---
MEAN	3190	2860	2740	1930	1690	1460	1570	942	891	2090	2590	3070

WTR YR 1978 MEAN 2090 MAX 3940 MIN 554

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	.0	.0	.0	.0	.0	7.0	8.0	8.0	18.0	13.0	10.0
2	2.0	.0	.0	.0	.0	.0	6.0	10.0	10.0	18.0	12.0	9.0
3	4.0	.0	.0	.0	.0	.0	3.0	9.0	10.0	15.0	12.0	12.0
4	3.0	1.0	.0	.0	.0	.0	4.0	8.0	10.0	14.0	12.0	12.0
5	4.0	3.0	.0	.0	.0	.0	3.0	3.0	8.0	20.0	13.0	21.0
6	7.0	13.0	.0	.0	2.0	.0	5.0	1.0	11.0	18.0	14.0	23.0
7	5.0	3.0	.0	.0	2.0	.0	7.0	1.0	13.0	14.0	14.0	14.0
8	3.0	.0	.0	.0	.0	.0	7.0	3.0	13.0	16.0	18.0	12.0
9	4.0	.0	.0	.0	.0	.0	8.0	5.0	14.0	16.0	16.0	10.0
10	2.0	.0	.0	.0	.0	.0	12.0	8.0	14.0	12.0	16.0	11.0
11	2.0	.0	.0	.0	.0	.0	10.0	7.0	12.0	13.0	15.0	7.0
12	2.0	1.0	.0	.0	.0	.0	11.0	7.0	15.0	12.0	16.0	5.0
13	3.0	1.0	.0	.0	.0	.0	11.0	8.0	17.0	12.0	13.0	7.0
14	3.0	.0	.0	.0	.0	.0	10.0	10.0	18.0	13.0	11.0	5.0
15	2.0	5.0	.0	.0	.0	.0	7.0	11.0	17.0	15.0	14.0	7.0
16	3.0	5.0	.0	.0	.0	.0	8.0	8.0	18.0	16.0	17.0	7.0
17	5.0	1.0	.0	.0	.0	1.0	1.0	4.0	13.0	16.0	13.0	8.0
18	3.0	1.0	.0	.0	.0	2.0	.0	4.0	13.0	13.0	10.0	3.0
19	2.0	.0	.0	.0	.0	3.0	2.0	7.0	12.0	18.0	11.0	3.0
20	4.0	.0	.0	.0	.0	7.0	5.0	9.0	12.0	16.0	10.0	2.0
21	3.0	.0	.0	.0	.5	8.0	3.0	10.0	13.0	16.0	11.0	3.0
22	4.0	.0	.0	.0	.0	4.0	.0	13.0	15.0	13.0	13.0	6.0
23	3.0	.0	.0	.0	.5	3.0	1.0	13.0	16.0	14.0	10.0	8.0
24	5.0	.0	.0	.0	.5	3.0	4.0	12.0	15.0	25.0	10.0	8.0
25	3.0	.0	.0	.0	.0	3.0	7.0	12.0	14.0	23.0	11.0	18.0
26	5.0	.0	.0	.0	1.0	2.0	8.0	13.0	14.0	25.0	11.0	17.0
27	10.0	.0	.0	.0	.5	3.0	5.0	9.0	13.0	26.0	10.0	13.0
28	11.0	.0	.0	.0	.0	4.0	6.0	9.0	16.0	25.0	9.0	16.0
29	5.0	.0	.0	.0	---	5.0	7.0	11.0	17.0	15.0	10.0	10.0
30	2.0	.0	.0	.0	---	7.0	6.0	7.0	17.0	15.0	12.0	7.0
31	.0	---	.0	.0	---	7.0	---	7.0	---	16.0	13.0	---
MEAN	3.5	1.0	.0	.0	.5	2.0	6.0	8.0	13.5	16.5	12.5	10.0

WTR YR 1978 MEAN 6.0 MAX 26.0 MIN .0

09222300 LITTLE MUDDY CREEK NEAR GLENCOE, WY

LOCATION.--Lat 41°34'54", long 110°33'42", in NW¼SE¼SE¼ sec.31, T.19 N., R.116 W., Lincoln County, Hydrologic Unit 14040108, on left bank 0.8 mi (1.3 km) downstream from North Fork, 9.3 mi (15.0 km) south of Glencoe, and 14.6 mi (23.5 km) south of Kemmerer.

DRAINAGE AREA.--416 mi^2 (1,077 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1976 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,540 ft (1,993 m), from topographic map.

REMARKS.--Records fair except those for winter period, which are poor. No diversion above station. Natural flow of stream affected by return flow from power development which diverts water into the basin from Hams Fork.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 157 ft^3/s (4.45 m^3/s) Mar. 20, 1978, gage height, 5.43 ft (1.655 m); maximum gage height, 5.86 ft (1.786 m) Mar. 18, 1978 (backwater from ice); minimum daily discharge, 0.87 ft^3/s (0.025 m^3/s) Aug. 4, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 157 ft^3/s (4.45 m^3/s) Mar. 20, gage height, 5.43 ft (1.655 m); maximum gage height, 5.86 ft (1.786 m) Mar. 18 (backwater from ice); minimum daily discharge, 0.87 ft^3/s (0.025 m^3/s) Aug. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	2.2	5.0	7.5	5.4	11	47	19	5.1	1.9	1.8	2.6
2	2.3	2.4	4.9	6.8	5.6	9.6	50	16	3.4	1.8	1.4	2.1
3	2.4	2.8	4.8	6.6	6.0	9.2	42	16	5.2	1.8	1.0	1.5
4	2.4	3.3	5.4	6.8	7.4	9.3	31	14	9.2	1.8	.87	1.6
5	2.4	3.6	5.6	7.4	7.4	10	26	12	20	2.2	2.8	2.2
6	19	4.2	5.2	8.0	6.0	11	22	12	14	2.4	2.8	2.7
7	22	4.2	4.6	8.5	5.5	12	19	17	9.7	2.7	2.8	2.9
8	5.5	1.9	4.2	8.6	5.5	13	14	32	8.0	2.2	2.8	3.2
9	3.4	1.5	4.2	8.4	6.0	14	12	29	6.2	1.5	2.4	3.3
10	3.0	1.8	4.5	8.1	6.2	15	11	26	5.1	1.2	1.9	3.8
11	3.4	3.0	5.2	7.9	7.0	18	11	25	4.5	1.5	1.5	4.0
12	3.6	3.7	5.8	8.1	6.9	22	11	22	3.9	1.8	1.2	4.4
13	3.6	3.4	6.8	7.8	6.5	20	9.9	18	3.3	1.8	1.2	5.2
14	3.7	3.0	7.8	7.7	6.0	18	10	15	3.1	1.9	1.9	5.3
15	3.7	2.5	8.6	7.5	5.4	16	13	14	2.9	1.8	3.7	6.0
16	3.9	2.0	9.0	7.3	5.0	15	14	12	2.7	2.3	3.9	5.2
17	4.0	1.8	9.0	7.5	4.8	26	12	11	2.3	2.3	4.4	6.0
18	3.9	2.3	8.0	7.0	5.3	51	11	12	2.4	1.8	3.8	14
19	3.9	2.8	7.5	6.6	5.9	90	10	13	2.5	1.8	2.7	11
20	3.8	2.6	7.0	6.3	6.5	120	8.5	12	2.5	1.8	2.9	11
21	4.2	2.4	6.6	6.0	8.0	95	8.0	11	2.4	1.8	3.1	7.4
22	4.3	2.3	7.0	5.7	9.0	80	7.6	11	2.0	1.9	2.7	9.2
23	4.3	2.7	7.6	5.4	9.6	50	9.0	12	1.9	1.9	3.0	11
24	3.9	3.0	8.0	5.1	10	59	8.6	11	1.8	1.8	2.6	9.0
25	3.8	3.5	7.8	5.3	11	44	8.3	9.5	1.9	1.8	2.4	7.0
26	3.7	4.3	7.4	5.6	12	38	11	9.2	2.1	2.0	2.6	5.9
27	3.7	5.4	7.0	5.8	13	35	14	8.8	2.5	2.2	2.6	4.2
28	3.2	6.0	6.9	5.9	12	32	16	8.3	2.6	2.0	2.7	3.3
29	2.9	5.8	7.2	5.7	---	30	15	8.2	2.6	1.8	2.4	3.4
30	2.9	5.6	7.6	5.5	---	29	17	8.3	2.0	1.5	2.1	3.7
31	2.6	---	8.0	5.3	---	28	---	9.2	---	1.8	2.5	---
TOTAL	141.6	96.0	204.2	211.7	204.9	1030.1	498.9	453.5	137.8	58.8	76.47	162.1
MEAN	4.57	3.20	6.59	6.83	7.32	33.2	16.6	14.6	4.59	1.90	2.47	5.40
MAX	22	6.0	9.0	8.6	13	120	50	32	20	2.7	4.4	14
MIN	2.2	1.5	4.2	5.1	4.8	9.2	7.6	8.2	1.8	1.2	.87	1.5
AC-FT	281	190	405	420	406	2040	990	900	273	117	152	322

CAL YR 1977 TOTAL 2384.90 MEAN 6.53 MAX 30 MIN 1.3 AC-FT 4730
WTR YR 1978 TOTAL 3276.07 MEAN 8.98 MAX 120 MIN .87 AC-FT 6500

09222300 LITTLE MUDDY CREEK NEAR GLENCOE, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year 1976 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)
OCT										
04...	1500	2.5	2000	--	8.5	5	--	--	--	--
13...	0945	3.2	1600	8.1	5.0	10	10.0	2.0	600	520
NOV										
01...	1625	6.4	2100	--	.5	130	--	--	--	--
30...	1000	6.9	1800	7.9	.0	10	10.4	3.0	960	770
30...	1555	A5.6	1900	--	.0	10	--	--	--	--
DEC										
21...	1000	A6.6	1600	7.6	.0	15	9.0	1.8	920	750
29...	1430	A7.2	1500	--	.0	15	--	--	--	--
JAN										
21...	0940	A6.0	1650	7.7	.0	40	--	2.4	820	640
30...	1330	A5.5	1350	--	.0	30	--	--	--	--
FEB										
18...	1000	A5.3	1200	7.7	.0	20	11.0	.8	790	600
MAR										
06...	1610	A11	1500	--	1.0	20	--	--	--	--
09...	1555	A14	1650	--	.0	50	--	--	--	--
17...	0945	A26	1450	7.8	.0	60	11.8	2.6	630	450
20...	1420	102	600	--	4.0	1200	--	--	--	--
27...	1425	33	880	8.4	9.5	--	--	--	410	210
30...	1520	29	1000	--	12.5	300	--	--	--	--
APR										
20...	1435	8.5	1350	--	12.0	50	--	--	--	--
MAY										
01...	1550	20	1900	--	12.0	120	--	--	--	--
01...	1700	19	2200	8.1	12.0	140	9.4	4.8	800	570
10...	1355	27	1270	--	11.0	400	--	--	--	--
22...	1350	11	1300	--	17.0	45	--	--	--	--
26...	0955	9.0	1180	8.1	7.0	25	9.7	1.9	580	370
JUN										
05...	1600	21	1850	--	15.5	650	--	--	--	--
19...	0925	2.6	1800	8.3	8.5	10	9.2	2.0	650	560
AUG										
04...	1030	.93	1500	9.1	17.0	8	8.3	3.2	670	630
04...	1530	.93	1500	--	22.0	7	--	--	--	--
SEP										
01...	0930	2.6	1300	8.5	13.0	4	7.9	1.4	710	660
06...	1740	2.9	1350	--	22.0	6	--	--	--	--
30...	0930	3.7	1400	8.2	6.5	1	8.3	2.0	590	530

A-Daily mean discharge.

09222300 LITTLE MUDDY CREEK NEAR GLENCOE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
OCT										
04...	--	--	--	--	--	--	--	--	--	--
13...	240	1.0	260	4.6	7.7	100	0	82	950	37
NOV										
01...	--	--	--	--	--	--	--	--	--	--
30...	220	100	150	2.1	7.3	230	0	190	930	58
30...	--	--	--	--	--	--	--	--	--	--
DEC										
21...	230	83	77	1.1	7.0	200	0	160	860	31
29...	--	--	--	--	--	--	--	--	--	--
JAN										
21...	190	83	92	1.4	5.6	210	0	170	740	56
30...	--	--	--	--	--	--	--	--	--	--
FEB										
18...	190	76	76	1.2	5.5	230	0	190	660	32
MAR										
06...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
17...	140	69	97	1.7	7.1	220	0	180	560	47
20...	--	--	--	--	--	--	--	--	--	--
27...	81	50	57	1.2	7.1	240	1	200	260	36
30...	--	--	--	--	--	--	--	--	--	--
APR										
20...	--	--	--	--	--	--	--	--	--	--
MAY										
01...	--	--	--	--	--	--	--	--	--	--
01...	140	110	200	3.1	7.7	280	0	230	840	92
10...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
26...	120	67	85	1.5	6.2	250	0	210	460	38
JUN										
05...	--	--	--	--	--	--	--	--	--	--
19...	130	80	120	2.0	5.9	110	0	90	700	46
AUG										
04...	160	65	87	1.5	6.0	34	7	40	740	23
04...	--	--	--	--	--	--	--	--	--	--
SEP										
01...	180	64	73	1.2	5.9	62	0	51	750	22
06...	--	--	--	--	--	--	--	--	--	--
30...	170	40	78	1.4	5.3	68	0	56	630	25

09222300 LITTLE MUDDY CREEK NEAR GLENCOE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 105 DEG. C, DIS-SOLVED (MG/L)	SOLIDS, SUM UF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)
OCT										
04...	--	--	--	--	--	--	--	--	--	--
13...	1.0	1.1	--	1550	2.11	13.4	--	.14	--	.01
NOV										
01...	--	--	--	--	--	--	--	--	--	--
30...	.8	4.6	--	1590	2.16	29.6	--	.99	--	.10
30...	--	--	--	--	--	--	--	--	--	--
DEC										
21...	.9	5.9	--	1400	1.90	24.9	--	.49	--	.07
29...	--	--	--	--	--	--	--	--	--	--
JAN										
21...	.9	6.3	--	1280	1.74	20.7	--	.95	--	.16
30...	--	--	--	--	--	--	--	--	--	--
FEB										
18...	.8	7.1	--	1160	1.58	16.6	--	.96	--	.14
MAR										
06...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
17...	.6	6.4	--	1040	1.41	73.0	--	.70	--	.12
20...	--	--	--	--	--	--	--	--	--	--
27...	--	5.8	--	617	.84	55.0	--	--	.21	--
30...	--	--	--	--	--	--	--	--	--	--
APR										
20...	--	--	--	--	--	--	--	--	--	--
MAY										
01...	--	--	--	--	--	--	--	--	--	--
01...	.6	5.6	--	1540	2.09	79.0	--	1.3	--	.11
10...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
26...	.7	3.0	--	905	1.23	22.0	--	.03	--	.03
JUN										
05...	--	--	--	--	--	--	--	--	--	--
19...	.7	2.6	1480	1140	1.55	8.00	25	.02	--	.03
AUG										
04...	.8	.6	--	1110	1.51	2.79	--	.03	--	.00
04...	--	--	--	--	--	--	--	--	--	--
SEP										
01...	.7	.3	--	1130	1.54	7.93	--	.02	--	.03
06...	--	--	--	--	--	--	--	--	--	--
30...	.7	.4	--	987	1.34	9.86	--	.01	--	.01

09222300 LITTLE MUDDY CREEK NEAR GLENCOE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)
OCT									
04...	--	--	--	--	--	--	--	--	--
13...	.39	.40	--	--	.54	2.4	.03	--	--
NOV									
01...	--	--	--	--	--	--	--	--	--
30...	1.2	1.3	--	--	2.3	10	.03	--	--
30...	--	--	--	--	--	--	--	--	--
DEC									
21...	.48	.55	--	--	1.0	4.6	.03	--	--
29...	--	--	--	--	--	--	--	--	--
JAN									
21...	.11	.27	--	--	1.2	5.4	.10	--	--
30...	--	--	--	--	--	--	--	--	--
FEB									
18...	.35	.49	--	--	1.5	6.4	.07	--	--
MAR									
06...	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--
17...	.52	.64	--	--	1.3	5.9	.15	--	--
20...	--	--	--	--	--	--	--	--	--
27...	--	1.9	1.2	.66	--	--	1.2	.02	.06
30...	--	--	--	--	--	--	--	--	--
APR									
20...	--	--	--	--	--	--	--	--	--
MAY									
01...	--	--	--	--	--	--	--	--	--
01...	1.3	1.4	--	--	2.7	12	.29	--	--
10...	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--
26...	1.1	1.1	--	--	1.1	5.0	.05	--	--
JUN									
05...	--	--	--	--	--	--	--	--	--
19...	.97	1.0	--	--	1.0	4.5	.07	--	--
AUG									
04...	.90	.90	--	--	.93	4.1	.07	--	--
04...	--	--	--	--	--	--	--	--	--
SEP									
01...	.59	.62	--	--	.64	2.8	.03	--	--
06...	--	--	--	--	--	--	--	--	--
30...	.39	.40	--	--	.41	1.8	.03	--	--

DATE	TIME	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)
OCT											
13...	0945	320	--	0	--	0	--	5200	10	--	10
NOV											
30...	1000	--	--	--	--	--	--	3300	--	--	--
DEC											
21...	1000	--	--	--	--	--	--	3500	--	--	--
JAN											
21...	0940	920	0	2	2	0	0	2300	2	2	10
FEB											
18...	1000	--	--	--	--	--	--	2300	--	--	--
MAR											
17...	0945	--	--	--	--	--	--	1400	--	--	--
27...	1425	--	--	--	--	--	--	--	--	--	--
MAY											
01...	1700	6400	--	3	--	10	--	1500	4	--	0
26...	0955	--	--	--	--	--	--	1700	--	--	--
JUN											
19...	0925	--	--	--	--	--	--	2800	--	--	--
AUG											
04...	1030	0	--	2	--	10	--	4700	4	--	0
SEP											
01...	0930	--	--	--	--	--	--	3500	--	--	--
30...	0930	--	--	--	--	--	--	4000	--	--	--

09222300 LITTLE MUDDY CREEK NEAR GLENCOE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)
OCT											
13...	--	<10	--	330	90	<100	--	90	--	40	--
NOV											
30...	--	--	--	--	60	--	--	--	--	--	--
DEC											
21...	--	--	--	--	130	--	--	--	--	--	--
JAN											
21...	0	6	2	1100	70	6	3	120	120	60	40
FEB											
18...	--	--	--	--	60	--	--	--	--	--	--
MAR											
17...	--	--	--	--	110	--	--	--	--	--	--
27...	--	--	--	--	30	--	--	--	--	--	--
MAY											
01...	--	19	--	4100	170	9	--	180	--	30	--
26...	--	--	--	--	250	--	--	--	--	--	--
JUN											
19...	--	--	--	--	210	--	--	--	--	--	--
AUG											
04...	--	19	--	470	330	26	--	100	--	40	--
SEP											
01...	--	--	--	--	470	--	--	--	--	--	--
30...	--	--	--	--	360	--	--	--	--	--	--

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)
OCT											
13...	.0	--	16	--	50	--	9	--	--	20	--
NOV											
30...	--	--	--	--	--	--	--	--	--	--	--
DEC											
21...	--	--	--	--	--	--	--	--	--	--	--
JAN											
21...	.0	.0	23	23	14	7	10	9	1.0	30	20
FEB											
18...	--	--	--	--	--	--	--	--	--	--	--
MAR											
17...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
MAY											
01...	.0	--	15	--	12	--	7	--	--	60	--
26...	--	--	--	--	--	--	--	--	--	--	--
JUN											
19...	--	--	--	--	--	--	--	--	--	--	--
AUG											
04...	.0	--	27	--	14	--	1	--	--	70	--
SEP											
01...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--

DATE	TIME	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DISSOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DISSOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DISSOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DISSOLVED (UG/L AS U)
JUN									
19...	0925	15	.8	8.0	1.6	7.4	1.6	.18	6.5

09222300 LITTLE MUDDY CREEK NEAR GLENCOE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	TEMPER-ATURE (DEG C)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM
OCT										
04...	1500	8.5	2.5	15	.10	--	--	--	--	--
NOV										
01...	1625	.5	6.4	372	6.4	--	--	--	--	--
30...	1555	.0	A5.6	34	.51	--	--	--	--	--
DEC										
29...	1430	.0	A7.2	75	1.5	--	--	--	--	--
JAN										
30...	1330	.0	A5.5	67	.99	--	--	--	--	--
MAR										
06...	1610	1.0	A11	58	1.7	--	--	--	--	--
09...	1555	.0	A14	158	6.0	--	--	--	--	--
20...	1420	4.0	102	3680	1010	41	77	95	99	100
27...	1425	9.5	33	2610	233	77	82	84	93	100
30...	1520	12.5	29	553	43	80	96	100	--	--
APR										
20...	1435	12.0	8.5	150	3.4	--	--	--	--	--
MAY										
01...	1550	12.0	20	279	15	--	--	--	--	--
10...	1355	11.0	27	804	59	--	--	--	--	--
22...	1350	17.0	11	270	8.0	--	--	--	--	--
JUN										
05...	1600	15.5	21	1030	58	86	98	100	--	--
JUL										
13...	1430	19.0	1.8	51	.25	--	--	--	--	--
AUG										
04...	1530	22.0	.93	23	.06	--	--	--	--	--
SEP										
06...	1740	22.0	2.9	28	.22	--	--	--	--	--

A-Daily mean discharge.

DATE	TIME	TEMPER-ATURE (DEG C)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	NUMBER OF SAM-PLING POINTS	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM
SEP							
06...	1740	22.0	2.9	18	20	29	38

DATE	BED MAT. FALL DIAM. % FINER THAN .500 MM	BED MAT. FALL DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM
SEP							
06...	50	53	62	74	84	89	100

09222400 MUDDY CREEK NEAR HAMPTON, WY

LOCATION.--Lat 41°32'17", long 110°13'43", in NW¼SW¼SW¼ sec.18, T.18 N., R.113 W., Uinta County, Hydrologic Unit 14040108, on left bank 2.0 mi (3.2 km) upstream from mouth, 2.6 mi (4.2 km) southwest of Church Buttes siding, 3.3 mi (5.3 km) downstream from Little Muddy Creek, and 4.2 mi (6.8 km) east of Hampton.

DRAINAGE AREA.--963 mi^2 (2,494 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1975 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,320 ft (1,926 m), from topographic map.

REMARKS.--Records fair except those for November to March, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 349 ft^3/s (9.88 m^3/s) June 11, 1978, gage height, 3.18 ft (0.969 m); maximum gage height, 6.03 ft (1.838 m) about Mar. 1, 1976 (backwater from ice); no flow part of each day June 27-30, Aug. 16, 18, and all of Aug. 17, 1977, July 24 to Aug. 13, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 349 ft^3/s (9.88 m^3/s) June 11, gage height, 3.18 ft (0.969 m); maximum gage height, 4.98 ft (1.518 m) Mar. 19 (backwater from ice); no flow July 24 to Aug. 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	3.3	9.0	8.3	7.5	22	89	102	142	8.0	.00	.35
2	1.2	2.9	9.6	7.7	7.9	20	116	126	128	7.1	.00	.18
3	1.1	3.3	10	7.3	8.2	19	114	106	138	6.0	.00	.35
4	1.0	3.8	11	7.6	8.7	18	93	96	178	5.3	.00	.35
5	1.0	3.6	11	8.5	9.3	17	67	94	215	4.6	.00	.30
6	36	3.3	10	9.5	9.0	18	55	96	225	4.8	.00	.14
7	78	3.1	11	9.4	9.5	19	43	78	170	4.8	.00	.02
8	23	3.0	11	9.0	10	20	36	78	198	4.3	.00	.70
9	7.1	2.9	10	8.6	11	21	35	102	200	3.9	.00	.61
10	4.1	2.8	11	9.1	12	22	36	108	230	3.7	.00	.61
11	3.2	2.6	11	9.4	13	34	35	147	292	3.2	.00	.73
12	2.8	2.8	10	9.5	13	70	36	180	235	2.6	.00	.85
13	3.2	3.1	9.0	9.7	12	130	51	165	192	2.0	.00	.97
14	2.8	4.0	9.5	9.5	11	160	49	140	170	1.6	.45	1.1
15	2.8	4.0	10	9.4	10	140	44	168	156	1.3	.61	1.2
16	2.8	4.2	9.0	9.1	9.3	120	41	208	134	1.2	.19	1.3
17	3.0	4.7	8.0	9.0	9.0	110	48	262	128	1.0	.37	2.1
18	3.2	6.2	7.0	8.8	9.9	250	44	185	102	.79	1.2	8.5
19	3.5	6.0	6.5	8.5	11	280	35	149	78	.61	1.3	9.9
20	3.5	5.6	6.6	8.2	12	253	29	165	67	.50	1.0	6.3
21	3.7	5.6	6.7	7.7	14	222	29	182	60	.30	.61	5.8
22	3.9	5.8	7.2	7.3	17	168	27	153	46	.14	.40	4.8
23	4.1	6.6	7.6	7.0	18	124	38	160	34	.03	.55	4.3
24	3.9	7.8	8.6	6.8	19	89	31	175	26	.00	.50	5.0
25	3.7	8.5	7.6	7.2	20	100	28	198	20	.00	.35	4.8
26	3.5	9.0	7.0	7.7	22	82	29	145	16	.00	.40	4.1
27	3.5	13	7.2	7.9	24	71	57	132	14	.00	.35	3.7
28	3.5	14	7.6	7.7	23	67	96	108	13	.00	.26	2.8
29	3.5	13	8.0	7.3	---	67	100	89	12	.00	.45	2.4
30	3.5	11	8.6	7.0	---	62	94	108	9.9	.00	.40	2.2
31	3.4	---	8.6	7.3	---	66	---	153	---	.00	.40	---
TOTAL	224.7	169.5	274.9	257.0	360.3	2861	1625	4358	3628.9	67.77	9.79	76.46
MEAN	7.25	5.65	8.87	8.29	12.9	92.3	54.2	141	121	2.19	.32	2.55
MAX	78	14	11	9.7	24	280	116	262	292	8.0	1.3	9.9
MIN	1.0	2.6	6.5	6.8	7.5	17	27	78	9.9	.00	.00	.02
AC-FT	446	336	545	510	715	5670	3220	8640	7200	134	19	152

CAL YR 1977 TOTAL 2883.38 MEAN 7.90 MAX 78 MIN .00 AC-FT 5720
WTR YR 1978 TOTAL 13913.32 MEAN 38.1 MAX 292 MIN .00 AC-FT 27600

09222400 MUDDY CREEK NEAR HAMPTON, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)
OCT										
03...	1130	1.1	2100	--	13.0	6	--	--	--	--
12...	1200	3.0	1250	8.2	7.0	75	10.2	2.8	560	450
NOV										
02...	1100	A2.9	2100	--	1.0	15	--	--	--	--
29...	1215	13	2200	8.1	.5	70	10.3	2.8	1000	820
DEC										
02...	1015	A9.6	2950	--	.0	40	--	--	--	--
20...	1315	6.6	2100	8.1	.0	25	10.6	2.8	870	620
27...	1135	A7.2	2100	--	.0	15	--	--	--	--
JAN										
20...	1245	8.2	1900	7.6	.0	40	9.8	3.4	720	450
FEB										
02...	1150	A7.9	1900	--	.0	40	--	--	--	--
17...	1230	9.0	1600	7.6	.0	40	10.6	2.2	710	390
23...	1600	A18	1700	--	.0	65	--	--	--	--
MAR										
09...	1225	A21	1600	--	.5	18	--	--	--	--
16...	1215	120	1450	8.0	.0	150	11.3	3.2	430	240
20...	1025	238	680	--	3.5	1900	--	--	--	--
23...	1105	126	1000	--	4.0	1500	--	--	--	--
27...	1040	73	--	--	6.0	--	--	--	400	180
28...	1320	71	--	8.7	11.0	500	--	--	480	220
MAY										
02...	1045	151	950	--	8.0	1100	--	--	--	--
02...	1450	138	1080	8.3	12.5	1200	8.8	5.5	350	120
10...	1040	122	1120	--	10.5	440	--	--	--	--
19...	1110	151	540	--	9.0	500	--	--	--	--
25...	1330	225	500	8.0	13.0	750	8.6	2.6	200	1
JUN										
05...	1130	244	760	--	13.5	800	--	--	--	--
16...	1145	172	340	--	17.0	460	--	--	--	--
18...	1100	120	440	8.2	16.0	290	8.0	1.4	150	27
AUG										
22...	1450	.45	2000	--	20.0	6	--	--	--	--
31...	1115	.60	2000	8.3	19.0	3	8.6	3.2	910	830
SEP										
07...	1040	.03	2100	--	18.0	2	--	--	--	--
29...	1110	2.3	1550	8.3	12.0	27	9.2	3.0	690	600

A-Daily mean discharge.

09222400 MUDDY CREEK NEAR HAMPTON, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
OCT										
03...	--	--	--	--	--	--	--	--	--	--
12...	130	57	110	2.0	7.2	130	0	110	590	70
NOV										
02...	--	--	--	--	--	--	--	--	--	--
29...	220	110	240	3.3	15	220	0	180	1100	150
DEC										
02...	--	--	--	--	--	--	--	--	--	--
20...	190	96	190	2.8	18	300	0	250	760	180
27...	--	--	--	--	--	--	--	--	--	--
JAN										
20...	160	79	170	2.7	16	340	0	280	570	200
FEB										
02...	--	--	--	--	--	--	--	--	--	--
17...	150	81	190	3.1	19	390	0	320	520	210
23...	--	--	--	--	--	--	--	--	--	--
MAR										
09...	--	--	--	--	--	--	--	--	--	--
16...	89	51	150	3.1	13	230	0	190	370	130
20...	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--
27...	76	52	120	2.6	18	270	1	220	250	140
28...	91	62	140	2.8	19	310	4	260	280	160
MAY										
02...	--	--	--	--	--	--	--	--	--	--
02...	74	39	100	2.3	12	280	0	230	180	100
10...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
25...	48	19	41	1.3	5.8	240	0	200	60	28
JUN										
05...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
18...	37	14	22	.9	3.8	150	0	120	30	31
AUG										
22...	--	--	--	--	--	--	--	--	--	--
31...	210	93	160	2.3	11	90	0	74	1000	97
SEP										
07...	--	--	--	--	--	--	--	--	--	--
29...	170	64	93	1.5	8.0	110	0	90	750	53

09222400 MUDDY CREEK NEAR HAMPTON, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 105 DEG. C, DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)
OCT										
03...	--	--	--	--	--	--	--	--	--	--
12...	.4	4.6	--	1040	1.41	8.42	--	.39	--	.04
NOV										
02...	--	--	--	--	--	--	--	--	--	--
29...	.8	3.7	--	1950	2.65	68.4	--	.88	--	.08
DEC										
02...	--	--	--	--	--	--	--	--	--	--
20...	.8	4.7	--	1590	2.16	28.3	--	.22	--	.03
27...	--	--	--	--	--	--	--	--	--	--
JAN										
20...	.7	7.0	--	1370	1.86	30.3	--	.64	--	.05
FEB										
02...	--	--	--	--	--	--	--	--	--	--
17...	.6	8.6	--	1370	1.86	33.3	--	.69	--	.08
23...	--	--	--	--	--	--	--	--	--	--
MAR										
09...	--	--	--	--	--	--	--	--	--	--
16...	.3	5.5	--	923	1.26	299	--	.58	--	.12
20...	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--
27...	--	6.4	--	798	1.09	157	--	--	.22	--
28...	--	6.6	--	918	1.25	176	--	--	.64	--
MAY										
02...	--	--	--	--	--	--	--	--	--	--
02...	.4	8.9	--	653	.89	243	--	1.7	--	.14
10...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
25...	.2	7.7	320	328	.45	199	2220	.15	--	.17
JUN										
05...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
18...	.2	8.5	--	223	.30	72.3	--	.04	--	.05
AUG										
22...	--	--	--	--	--	--	--	--	--	--
31...	.8	.7	--	1620	2.20	2.62	--	.01	--	.04
SEP										
07...	--	--	--	--	--	--	--	--	--	--
29...	.7	1.9	--	1180	1.60	7.33	--	.01	--	.09

09222400 MUDDY CREEK NEAR HAMPTON, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)
OCT									
03...	--	--	--	--	--	--	--	--	--
12...	.76	.80	--	--	1.2	5.3	.24	--	--
NOV									
02...	--	--	--	--	--	--	--	--	--
29...	1.0	1.1	--	--	2.0	8.8	.14	--	--
DEC									
02...	--	--	--	--	--	--	--	--	--
20...	.48	.51	--	--	.73	3.2	.04	--	--
27...	--	--	--	--	--	--	--	--	--
JAN									
20...	.56	.61	--	--	1.3	5.5	.10	--	--
FEB									
02...	--	--	--	--	--	--	--	--	--
17...	.57	.65	--	--	1.3	5.9	.02	--	--
23...	--	--	--	--	--	--	--	--	--
MAR									
09...	--	--	--	--	--	--	--	--	--
16...	.18	.30	--	--	.88	3.9	.37	--	--
20...	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--
27...	--	2.0	1.4	.61	--	--	1.7	.01	.03
28...	--	2.4	1.7	.68	--	--	1.6	.01	.03
MAY									
02...	--	--	--	--	--	--	--	--	--
02...	3.7	3.8	--	--	5.5	24	3.5	--	--
10...	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--
25...	2.1	2.3	--	--	2.5	11	1.8	--	--
JUN									
05...	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--
18...	1.5	1.5	--	--	1.5	6.8	.58	--	--
AUG									
22...	--	--	--	--	--	--	--	--	--
31...	1.2	1.2	--	--	1.2	5.4	.03	--	--
SEP									
07...	--	--	--	--	--	--	--	--	--
29...	.60	.69	--	--	.70	3.1	.15	--	--

DATE	TIME	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)
OCT											
12...	1200	1500	--	2	--	0	--	1900	<10	--	10
NOV											
29...	1215	--	--	--	--	--	--	3400	--	--	--
DEC											
20...	1315	--	--	--	--	--	--	2700	--	--	--
JAN											
20...	1245	1000	0	3	2	0	0	1600	4	4	10
FEB											
17...	1230	--	--	--	--	--	--	1500	--	--	--
MAR											
16...	1215	--	--	--	--	--	--	670	--	--	--
27...	1040	--	--	--	--	--	--	--	--	--	--
28...	1320	--	--	--	--	--	--	--	--	--	--
MAY											
02...	1450	24000	--	9	--	0	--	540	1	--	50
25...	1330	--	--	--	--	--	--	190	--	--	--
JUN											
18...	1100	--	--	--	--	--	--	120	--	--	--
AUG											
31...	1115	0	--	2	--	10	--	6000	1	--	0
SEP											
29...	1110	--	--	--	--	--	--	3500	--	--	--

09222400 MUDDY CREEK NEAR HAMPTON, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
OCT											
12...	--	<10	--	1600	180	<100	--	60	--	50	--
NOV											
29...	--	--	--	--	50	--	--	--	--	--	--
DEC											
20...	--	--	--	--	140	--	--	--	--	--	--
JAN											
20...	0	7	3	1200	100	11	6	260	270	40	20
FEB											
17...	--	--	--	--	80	--	--	--	--	--	--
MAR											
16...	--	--	--	--	130	--	--	--	--	--	--
27...	--	--	--	--	20	--	--	--	--	--	--
28...	--	--	--	--	20	--	--	--	--	--	--
MAY											
02...	--	83	--	38000	220	39	--	230	--	1400	--
25...	--	--	--	--	210	--	--	--	--	--	--
JUN											
18...	--	--	--	--	220	--	--	--	--	--	--
AUG											
31...	--	8	--	250	640	17	--	170	--	20	--
SEP											
29...	--	--	--	--	170	--	--	--	--	--	--

DATE	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT											
12...	.0	--	10	--	50	--	1	--	--	20	--
NOV											
29...	--	--	--	--	--	--	--	--	--	--	--
DEC											
20...	--	--	--	--	--	--	--	--	--	--	--
JAN											
20...	.0	.0	12	11	14	6	6	6	1.0	40	20
FEB											
17...	--	--	--	--	--	--	--	--	--	--	--
MAR											
16...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
MAY											
02...	.0	--	9	--	26	--	1	--	--	240	--
25...	--	--	--	--	--	--	--	--	--	--	--
JUN											
18...	--	--	--	--	--	--	--	--	--	--	--
AUG											
31...	.0	--	54	--	11	--	1	--	--	20	--
SEP											
29...	--	--	--	--	--	--	--	--	--	--	--

DATE	TIME	GROSS ALPHA, DIS-SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS-SOLVED (UG/L AS U)
MAY									
25...	1330	6.8	75	7.9	49	7.1	43	.12	2.5

09222400 MUDDY CREEK NEAR HAMPTON, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	TEMPER-ATURE (DEG C)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM
OCT										
03...	1130	13.0	1.1	12	.04	--	--	--	--	--
NOV										
02...	1100	1.0	A2.9	41	.32	--	--	--	--	--
DEC										
02...	1015	.0	A9.6	176	4.6	--	--	--	--	--
27...	1135	.0	A7.2	106	2.1	--	--	--	--	--
FEB										
02...	1150	.0	A7.9	119	2.5	--	--	--	--	--
23...	1600	.0	A18	223	11	--	--	--	--	--
MAR										
09...	1225	.5	A21	70	4.0	--	--	--	--	--
20...	1025	3.5	238	6160	3960	52	73	86	94	100
23...	1105	4.0	126	3260	1110	62	90	96	98	100
MAY										
02...	1045	8.0	151	3870	1580	--	--	--	--	--
10...	1040	10.5	122	1820	600	45	68	89	96	100
19...	1110	9.0	151	2520	1030	--	--	--	--	--
JUN										
05...	1130	13.0	244	4280	2820	32	50	76	94	100
16...	1145	17.0	172	2060	957	43	58	86	98	100
JUL										
13...	1130	19.0	2.3	28	.17	--	--	--	--	--
AUG										
22...	1450	20.0	.45	35	.04	--	--	--	--	--
SEP										
07...	1040	18.0	.03	10	.00	--	--	--	--	--

A-Daily mean discharge.

DATE	TIME	TEMPER-ATURE (DEG C)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	NUMBER OF SAM-PLING POINTS	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM
SEP							
07...	1040	18.0	.03	10	10	20	48

DATE	BED MAT. FALL DIAM. % FINER THAN .500 MM	BED MAT. FALL DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM
SEP							
07...	55	56	60	68	83	94	100

09223000 HAMS FORK BELOW POLE CREEK, NEAR FRONTIER, WY

LOCATION.--Lat 42°06'38", long 110°42'34", in NW¼SE¼NW¼ sec.35, T.25 N., R.117 W., Lincoln County, Hydrologic Unit 14040107, on left bank 2.0 mi (3.2 km) downstream from Pole Creek, 4.6 mi (7.4 km) upstream from Taylor Creek, and 22 mi (35 km) northwest of Frontier.

DRAINAGE AREA.--128 mi² (332 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1952 to current year. Prior to October 1970, published as "near Elk Creek ranger station."

GAGE.--Water-stage recorder. Altitude of gage is 7,455 ft (2,272 m), from topographic map. Prior to Sept. 2, 1971, at site 120 ft (37 m) upstream at present datum.

REMARKS.--Records good except those for winter period, which are poor. No diversion above station.

AVERAGE DISCHARGE.--26 years, 101 ft³/s (2.86 m³/s), 73,170 acre-ft/yr (90.2 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,520 ft³/s (43.0 m³/s) May 28, 1971, gage height, 8.10 ft (2.469 m); minimum daily, 0.10 ft³/s (0.003 m³/s) Aug. 17, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 350 ft³/s (9.91 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
May 4	0030	361	10.2	5.44	1.658	May 24	0530	856	24.2	6.84	2.085
May 16	0030	960	27.2	7.10	2.164	June 10	1000	*1,050	29.7	7.32	2.231

Minimum daily discharge, 6.8 ft³/s (0.19 m³/s) Feb. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	14	13	11	9.5	9.2	170	221	556	451	67	26
2	12	13	13	10	10	8.9	150	266	587	421	63	25
3	11	12	14	9.0	11	8.6	120	310	640	400	61	24
4	9.7	13	15	8.3	12	8.3	90	335	657	376	58	23
5	9.7	13	15	8.6	11	8.6	58	263	688	364	54	23
6	11	13	14	9.2	11	9.4	58	221	760	349	51	23
7	22	13	15	9.3	10	10	53	199	868	338	48	22
8	19	12	14	9.0	9.5	11	57	182	912	302	46	24
9	16	11	13	9.5	9.5	12	58	184	980	271	44	23
10	13	11	13	10	9.3	12	54	268	1010	250	42	21
11	12	12	12	10	9.0	13	68	361	908	226	40	26
12	12	13	13	11	8.5	13	75	352	772	207	42	28
13	12	14	14	10	8.3	14	80	358	756	186	57	32
14	12	13	14	10	7.8	13	84	548	864	171	75	30
15	11	11	14	9.5	7.4	12	80	780	916	149	58	26
16	10	10	13	10	7.0	12	76	864	912	125	48	24
17	10	10	12	11	6.8	13	74	590	852	120	46	28
18	10	11	12	10	7.2	16	71	469	752	115	46	44
19	10	11	11	10	7.8	20	71	421	692	105	42	37
20	10	10	11	9.7	8.5	25	75	482	657	100	39	35
21	11	9.5	10	9.5	9.2	32	77	629	640	115	37	34
22	10	10	9.5	9.0	9.0	40	69	688	657	108	35	37
23	10	11	9.3	8.5	9.5	50	71	796	660	97	35	38
24	10	11	9.4	9.0	10	52	74	792	646	87	33	35
25	10	12	9.9	9.7	11	56	100	702	636	81	32	32
26	10	12	11	10	11	60	160	688	590	76	32	30
27	10	13	11	11	10	76	199	692	531	74	31	28
28	10	13	10	10	9.6	90	207	699	486	78	30	27
29	11	14	10	9.5	---	100	209	796	478	80	30	26
30	12	14	11	9.5	---	120	253	744	469	74	30	25
31	13	---	12	10	---	140	---	612	---	70	28	---
TOTAL	361.4	359.5	378.1	300.8	260.4	1065.0	3041	15512	21532	5966	1380	856
MEAN	11.7	12.0	12.2	9.70	9.30	34.4	101	500	718	192	44.5	28.5
MAX	22	14	15	11	12	140	253	864	1010	451	75	44
MIN	9.7	9.5	9.3	8.3	6.8	8.3	53	182	469	70	28	21
AC-FT	717	713	750	597	517	2110	6030	30770	42710	11830	2740	1700

CAL YR 1977 TOTAL 5988.55 MEAN 16.4 MAX 46 MIN .10 AC-FT 11880
WTR YR 1978 TOTAL 51012.20 MEAN 140 MAX 1010 MIN 6.8 AC-FT 101200

09223000 HAMS FORK BELOW POLE CREEK, NEAR FRONTIER, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to September 1978 (discontinued).

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO
OCT											
04...	1035	9.7	420	7.5	1	--	--	--	--	--	--
NOV											
01...	1045	A14	460	.5	2	--	--	--	--	--	--
DEC											
13...	1255	A14	480	.0	1	--	--	--	--	--	--
JAN											
25...	1610	A9.7	700	.0	1	--	--	--	--	--	--
MAR											
01...	1050	A9.2	520	.5	1	--	--	--	--	--	--
APR											
20...	1205	74	360	5.5	2	--	--	--	--	--	--
MAY											
16...	1500	848	215	4.5	55	130	9	42	6.5	1.6	.1
JUN											
06...	1410	792	240	9.0	15	--	--	--	--	--	--
14...	1500	908	250	11.5	20	120	17	39	6.3	1.5	.1
JUL											
11...	1235	226	300	13.0	4	150	7	44	9.0	1.7	.1
AUG											
04...	1040	58	250	15.0	2	--	--	--	--	--	--
21...	1410	37	335	17.0	1	--	--	--	--	--	--
SEP											
06...	1110	23	300	16.5	1	180	39	55	10	1.8	.1

A-Daily mean discharge.

DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)
OCT											
04...	--	--	--	--	--	--	--	--	--	--	--
NOV											
01...	--	--	--	--	--	--	--	--	--	--	--
DEC											
13...	--	--	--	--	--	--	--	--	--	--	--
JAN											
25...	--	--	--	--	--	--	--	--	--	--	--
MAR											
01...	--	--	--	--	--	--	--	--	--	--	--
APR											
20...	--	--	--	--	--	--	--	--	--	--	--
MAY											
16...	1.2	150	0	120	15	1.3	.1	5.6	147	.20	337
JUN											
06...	--	--	--	--	--	--	--	--	--	--	--
14...	.7	130	0	110	9.1	.8	.1	4.4	126	.17	309
JUL											
11...	6.9	170	0	140	12	1.0	.1	6.0	165	.22	101
AUG											
04...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
SEP											
06...	.6	170	0	140	30	1.0	.1	4.5	187	.25	11.6

09223000 HAMS FORK BELOW POLE CREEK, NEAR FRONTIER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)
OCT 04...	--	--	--	--	--	--	--	--	4	.10
NOV 01...	--	--	--	--	--	--	--	--	7	.26
DEC 13...	--	--	--	--	--	--	--	--	19	.72
JAN 25...	--	--	--	--	--	--	--	--	7	.18
MAR 01...	--	--	--	--	--	--	--	--	4	.10
APR 20...	--	--	--	--	--	--	--	--	16	3.2
MAY 16...	--	.23	.04	--	--	20	60	40	163	373
JUN 06...	--	--	--	--	--	--	--	--	57	122
14...	--	.12	.03	--	--	30	60	20	65	159
JUL 11...	.02	.03	.01	--	--	20	40	40	20	12
AUG 04...	--	--	--	--	--	--	--	--	12	1.9
21...	--	--	--	--	--	--	--	--	20	2.0
SEP 06...	.04	.04	.02	.01	.03	10	50	20	3	.19

DATE	TIME	TEMPERATURE (DEG C)	STREAMFLOW, INSTANTANEOUS (CFS)	NUMBER OF SAMPLING POINTS	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 128 MM
SEP 06...	1110	16.5	23	100	4	13	44	87

09224050 HAMS FORK NEAR DIAMONDVILLE, WY

LOCATION.--Lat 41°45'06", long 110°31'57", in NW¼SE¼SW¼ sec.36, T.21 N., R.116 W., Lincoln County, Hydrologic Unit 14040107, at bridge on U.S. Highway 30N, 1.9 mi (3.1 km) south of Diamondville, and 2.8 mi (4.5 km) south of Kemmerer.

PERIOD OF RECORD.--Water years 1975 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
OCT												
13...	0800	14	560	7.4	4.0	2	8.3	2.7	K300	290	160	76
NOV												
30...	0815	16	510	7.4	.0	2	11.8	3.1	K6150	290	120	82
DEC												
21...	0830	E8.0	590	7.3	.0	4	9.4	3.0	960	310	140	88
JAN												
21...	0815	E15	600	7.4	.0	2	9.2	2.8	K10500	310	130	85
FEB												
18...	0845	E20	520	7.4	.0	1	10.2	2.3	K15600	330	140	94
MAR												
17...	0815	19	660	7.7	.5	3	9.6	2.9	9600	330	130	93
MAY												
02...	0815	E1000	450	8.1	5.5	60	10.6	4.4	1320	210	42	56
26...	0815	E670	370	7.9	6.0	15	9.4	2.4	2400	190	25	56
JUN												
19...	0800	790	360	8.2	12.0	10	9.2	1.9	1380	180	20	54
AUG												
04...	0900	94	380	8.0	15.0	3	7.5	2.4	K3100	170	43	50
SEP												
01...	0800	18	385	7.8	13.0	3	6.7	2.2	3800	190	70	56
30...	0800	23	520	7.6	6.5	2	4.8	2.6	540	250	90	72

E-Estimate.
K-Results based on colony count outside the acceptable range (non-ideal colony count).

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
OCT												
13...	25	20	.5	2.2	160	0	130	160	12	.4	1.0	376
NOV												
30...	20	16	.4	1.9	200	0	160	150	8.3	.3	2.9	380
DEC												
21...	23	18	.4	2.2	210	0	170	170	9.2	.4	3.2	418
JAN												
21...	23	15	.4	1.8	210	0	170	160	8.4	.3	3.5	401
FEB												
18...	24	18	.4	2.0	240	0	200	150	9.1	.4	5.2	421
MAR												
17...	24	17	.4	2.0	240	0	200	150	9.9	.4	5.2	420
MAY												
02...	16	32	1.0	1.9	200	0	160	64	5.5	.2	5.8	280
26...	12	7.3	.2	1.7	200	0	160	33	3.7	.1	5.7	218
JUN												
19...	10	4.9	.2	1.4	190	0	160	26	2.5	.1	6.4	199
AUG												
04...	12	5.9	.2	1.1	160	0	130	46	2.9	.2	3.7	201
SEP												
01...	13	6.1	.3	1.0	150	0	120	80	3.6	.2	2.6	239
30...	16	14	.4	1.9	190	0	160	100	7.6	.2	.8	306

09224050 HAMS FORK NEAR DIAMONDVILLE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS NO3)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C)
OCT											
13...	.51	14.2	.73	.15	.42	.57	1.3	5.8	.38	5.3	.6
NOV											
30...	.52	16.4	.20	.56	.54	1.1	1.3	5.8	.27	--	--
DEC											
21...	.57	9.03	.25	.65	.27	.92	1.2	5.2	.35	--	--
JAN											
21...	.55	16.2	.14	--	--	.96	1.1	4.9	.29	--	--
FEB											
18...	.57	22.7	.20	.90	.00	.90	1.1	4.9	.35	--	--
MAR											
17...	.57	21.5	.65	.55	.29	.84	1.5	6.6	.30	--	--
MAY											
02...	.38	756	.06	.06	1.5	1.6	1.7	7.3	.30	4.4	1.8
26...	.30	394	.04	.00	1.8	1.8	1.8	8.1	.06	--	--
JUN											
19...	.27	424	.01	.04	.58	.62	.63	2.8	.08	--	--
AUG											
04...	.27	51.0	.02	.00	.63	.63	.65	2.9	.11	--	--
SEP											
01...	.33	11.6	.06	.13	.41	.54	.60	2.7	.17	--	--
30...	.42	19.0	.24	.19	.41	.60	.84	3.7	.34	--	--

DATE	TIME	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)	ALUM-INUM, SUS-PENDED RECOV. (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS-PENDED TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE)	BERYL-LIUM, SUS-PENDED RECOV. (UG/L AS BE)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)
OCT												
13...	0800	60	50	10	1	0	1	0	0	10	70	10
NOV												
30...	0815	--	--	--	--	--	--	--	--	--	60	--
DEC												
21...	0830	--	--	--	--	--	--	--	--	--	80	--
JAN												
21...	0815	--	--	--	--	--	--	--	--	--	50	--
FEB												
18...	0845	--	--	--	--	--	--	--	--	--	60	--
MAR												
17...	0815	--	--	--	--	--	--	--	--	--	70	--
MAY												
02...	0815	1300	1300	0	3	2	1	10	10	0	40	3
26...	0815	--	--	--	--	--	--	--	--	--	30	--
JUN												
19...	0800	--	--	--	--	--	--	--	--	--	40	--
AUG												
04...	0900	--	--	--	--	--	--	--	--	--	30	--
SEP												
01...	0800	--	--	--	--	--	--	--	--	--	30	--
30...	0800	--	--	--	--	--	--	--	--	--	50	--

09224050 HAMS FORK NEAR DIAMONDVILLE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)
OCT												
13...	9	1	10	0	10	<10	<10	0	180	30	<100	<98
NOV												
30...	--	--	--	--	--	--	--	--	--	70	--	--
DEC												
21...	--	--	--	--	--	--	--	--	--	110	--	--
JAN												
21...	--	--	--	--	--	--	--	--	--	90	--	--
FEB												
18...	--	--	--	--	--	--	--	--	--	90	--	--
MAR												
17...	--	--	--	--	--	--	--	--	--	110	--	--
MAY												
02...	0	3	0	0	0	4	4	0	1400	180	10	5
26...	--	--	--	--	--	--	--	--	--	210	--	--
JUN												
19...	--	--	--	--	--	--	--	--	--	420	--	--
AUG												
04...	--	--	--	--	--	--	--	--	--	370	--	--
SEP												
01...	--	--	--	--	--	--	--	--	--	380	--	--
30...	--	--	--	--	--	--	--	--	--	230	--	--

DATE	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	LITHIUM SUSPENDED RECOVERABLE (UG/L AS LI)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, SUSPENDED RECOV. (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY SUSPENDED RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	MOLYBDENUM, SUSPENDED RECOV. (UG/L AS MO)
OCT												
13...	2	20	10	6	40	30	10	.0	.0	.0	3	3
NOV												
30...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
21...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
21...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
18...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
17...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
02...	5	9	0	20	300	190	110	.0	.0	.0	4	4
26...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
19...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
04...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
01...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, SUSPENDED RECOVERABLE (UG/L AS NI)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, SUSPENDED TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)
OCT											
13...	0	<50	<47	3	0	0	0	.1	10	0	10
NOV											
30...	--	--	--	--	--	--	--	--	--	--	--
DEC											
21...	--	--	--	--	--	--	--	--	--	--	--
JAN											
21...	--	--	--	--	--	--	--	--	--	--	--
FEB											
18...	--	--	--	--	--	--	--	--	--	--	--
MAR											
17...	--	--	--	--	--	--	--	--	--	--	--
MAY											
02...	0	2	1	1	0	0	0	1.0	20	10	10
26...	--	--	--	--	--	--	--	--	--	--	--
JUN											
19...	--	--	--	--	--	--	--	--	--	--	--
AUG											
04...	--	--	--	--	--	--	--	--	--	--	--
SEP											
01...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--

09224450 HAMS FORK NEAR GRANGER, WY

LOCATION.--Lat 41°35'56", long 109°59'28", in center of sec.30, T.19 N., R.111 W., Sweetwater County, Hydrologic Unit 14040107, at railroad bridge, 1.2 mi (1.9 km) northwest of Granger, and 1.8 mi (2.9 km) upstream from mouth.

DRAINAGE AREA.--670 mi² (1,740 km²), approximately.

PERIOD OF RECORD.--Water years 1965 to current year.

REMARKS.--No flow was observed Oct. 12.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
NOV									
29...	1615	12	760	--	1.0	10	340	150	84
DEC									
20...	1730	E10	800	--	.0	6	360	150	95
JAN									
20...	1630	14	800	--	.0	4	350	150	92
FEB									
17...	1610	24	620	--	.0	2	340	130	76
MAR									
16...	1600	29	620	--	.5	20	240	92	64
MAY									
02...	1030	430	480	--	8.5	125	180	49	50
25...	1710	826	420	7.9	13.0	75	200	36	59
JUN									
18...	1530	859	440	8.4	17.0	40	190	16	56
AUG									
03...	1600	42	510	8.1	22.0	7	200	52	53
31...	1510	11	590	8.2	19.0	6	230	74	61
SEP									
29...	1500	14	620	8.2	15.0	10	230	66	60

E-Estimate.

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
NOV									
29...	31	64	1.5	2.2	230	0	190	240	32
DEC									
20...	31	69	1.6	2.3	260	0	210	230	41
JAN									
20...	28	48	1.1	1.9	250	0	200	190	27
FEB									
17...	36	51	1.2	2.0	260	0	210	190	27
MAR									
16...	20	38	1.1	1.7	180	0	150	150	18
MAY									
02...	14	29	.9	1.6	160	0	130	95	3.4
25...	13	11	.3	1.3	170	15	160	57	3.4
JUN									
18...	11	21	.7	1.9	200	6	170	45	1.9
AUG									
03...	17	26	.8	.4	180	0	150	86	10
31...	19	34	1.0	1.6	190	0	160	130	3.0
SEP									
29...	20	40	1.1	2.0	200	0	160	130	17

09224450 HAMS FORK NEAR GRANGER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
NOV									
29...	.4	2.8	570	.78	18.5	.09	.00	33	1.1
DEC									
20...	.5	2.6	600	.82	--	.09	.01	12	.32
JAN									
20...	.5	3.0	514	.70	19.4	.05	.02	19	.72
FEB									
17...	.5	2.6	513	.70	33.2	.05	.01	30	1.9
MAR									
16...	.3	5.5	386	.53	30.2	.05	.13	40	3.1
MAY									
02...	1.6	.1	274	.37	318	.02	.01	424	492
25...	.3	6.0	251	.34	560	.27	.44	336	749
JUN									
18...	.3	5.4	249	.34	578	.34	.21	240	557
AUG									
03...	.4	.0	282	.38	32.0	.02	.05	25	2.8
31...	.5	.9	344	.47	10.2	.07	.03	20	.59
SEP									
29...	.3	.0	368	.50	13.9	.05	.11	44	1.7

09224700 BLACKS FORK NEAR LITTLE AMERICA, WY

LOCATION.--Lat 41°32'46", long 109°41'34", in NE¼NE¼NE¼ sec.15, T.18 N., R.109 W., Sweetwater County, Hydrologic Unit 14040107, on right bank 200 ft (61 m) upstream from bridge on U.S. Highway 30, 4.2 mi (6.8 km) upstream from Meadow Springs Wash, and 8.5 mi (13.7 km) east of Little America.

DRAINAGE AREA.--3,100 mi² (8,030 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1962 to current year.

GAGE.--Water-stage recorder. Datum of gage is 6,127.66 ft (1,867.711 m), National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except those for November to March, which are poor. Natural flow of stream affected by regulation from Meeks Cabin Reservoir, capacity, 32,470 acre-ft (40.0 hm³), since June 1971, Viva Naughton Reservoir, capacity, 42,400 acre-ft (52.3 hm³), numerous smaller reservoirs, and diversions for irrigation of about 76,100 acres (308 km²) above station.

AVERAGE DISCHARGE.--16 years, 347 ft³/s (9.827 m³/s), 251,400 acre-ft/yr (310 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,980 ft³/s (283 m³/s) June 13, 1965, gage height, 10.90 ft (3.322 m); no flow Sept. 20-26, 1962.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,700 ft³/s (76.5 m³/s) June 5, gage height, 7.09 ft (2.161 m); minimum daily, 5.6 ft³/s (0.16 m³/s) Oct. 2, 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.3	12	32	15	32	96	369	697	1210	588	99	21
2	5.6	15	47	14	34	90	504	697	925	554	98	18
3	6.5	15	51	13	36	83	612	661	1300	484	96	18
4	6.3	18	41	12	37	80	526	697	1900	431	93	18
5	5.6	18	27	13	38	76	419	738	2340	389	82	18
6	19	18	26	14	39	80	323	773	2000	379	76	15
7	304	19	28	15	40	90	286	810	1700	385	70	15
8	183	16	25	16	41	110	291	886	1270	356	57	14
9	70	10	28	17	42	150	336	976	1290	313	55	16
10	36	11	32	18	43	200	364	976	1340	263	54	17
11	24	12	29	18	45	240	364	932	1510	203	52	17
12	19	13	26	19	44	280	350	905	1710	167	54	17
13	22	14	24	20	42	330	350	912	1680	160	66	17
14	17	14	25	20	40	300	355	892	1530	158	100	18
15	16	13	27	20	38	290	350	854	1550	163	132	20
16	16	23	27	20	35	290	393	899	1640	172	124	24
17	15	29	23	19	33	360	440	1040	1580	174	100	29
18	15	25	19	19	32	430	472	1340	1520	155	80	66
19	14	25	15	19	32	550	472	1400	1450	141	64	118
20	13	18	12	18	34	750	450	1340	1350	134	60	138
21	14	16	11	18	36	755	445	1350	1230	124	57	98
22	14	14	10	17	39	630	434	1400	1130	119	55	78
23	14	14	11	17	44	537	434	1250	1020	102	47	70
24	14	15	12	16	48	466	384	1090	932	97	44	60
25	14	18	13	15	55	384	346	1170	954	99	38	54
26	14	20	13	18	70	364	341	1340	961	97	36	52
27	14	22	12	21	84	309	398	1310	983	99	32	49
28	13	25	13	24	95	273	606	1160	892	92	27	44
29	14	24	14	26	---	269	691	1090	749	87	24	39
30	15	28	15	28	---	273	680	1080	636	87	24	38
31	15	---	16	30	---	295	---	1110	---	89	21	---
TOTAL	968.3	534	704	569	1228	9430	12785	31775	40282	6861	2017	1216
MEAN	31.2	17.8	22.7	18.4	43.9	304	426	1025	1343	221	65.1	40.5
MAX	304	29	51	30	95	755	691	1400	2340	588	132	138
MIN	5.6	10	10	12	32	76	286	661	636	87	21	14
AC-FT	1920	1060	1400	1130	2440	16700	25360	63030	79900	13610	4000	2410

CAL YR 1977 TOTAL 10080.32 MEAN 27.6 MAX 304 MIN .19 AC-FT 19990
WTR YR 1978 TOTAL 108369.30 MEAN 297 MAX 2340 MIN 5.6 AC-FT 215000

09224700 BLACKS FORK NEAR LITTLE AMERICA, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1951 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: March 1951 to current year.
WATER TEMPERATURES: March 1951 to September 1963, December 1964 to current year.

REMARKS.--Published as "near Green River" prior to October 1953 and as "near Marston" October 1953 to September 1964.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 6,010 micromhos Oct. 1, 1953; minimum daily, 411 micromhos May 13, 1969.
WATER TEMPERATURES: Maximum, 29.0°C July 15, 16, 1955, June 5, 1977; minimum, 0.0°C on many days during winter period most years.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum daily, 3,440 micromhos Nov. 21; minimum daily, 484 micromhos June 17.
WATER TEMPERATURES: Maximum observed, 26.0°C Aug. 8; minimum, 0.0°C on many days during November to March.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
OCT											
04...	1130	6.3	2800	--	8.0	4	--	--	--	--	--
12...	0930	19	1450	--	6.0	35	10.3	73	440	320	110
21...	1425	14	--	--	11.5	--	--	--	950	800	220
NOV											
03...	1340	17	2900	--	7.0	10	--	--	--	--	--
29...	1015	A24	2200	--	.5	20	10.4	K6	800	600	200
DEC											
02...	1445	57	2100	--	.0	65	--	--	--	--	--
20...	1130	A12	2500	--	.0	10	12.6	K3	930	670	220
28...	1520	A13	3000	--	.0	10	--	--	--	--	--
JAN											
20...	1040	A18	1850	--	.0	6	10.2	76	660	410	160
FEB											
03...	1630	A36	1600	--	.0	8	--	--	--	--	--
17...	1010	A33	1400	--	.0	8	12.2	42	590	330	140
MAR											
03...	1030	A83	1150	--	.5	65	--	--	--	--	--
16...	1000	A290	1250	--	.0	250	12.3	72	340	190	84
22...	1400	636	800	--	5.0	1700	--	--	--	--	--
27...	1005	300	--	--	6.5	--	--	--	350	160	90
APR											
06...	1330	318	620	--	10.0	230	--	--	--	--	--
MAY											
01...	1300	685	960	--	9.0	1800	--	--	--	--	--
02...	1630	685	850	--	11.5	1000	8.9	K150	230	48	62
22...	1430	1410	560	--	14.5	340	--	--	--	--	--
25...	1100	1140	660	8.1	11.0	250	8.8	220	240	87	65
JUN											
06...	1400	2450	890	--	14.0	2400	--	--	--	--	--
07...	1635	1640	800	--	16.5	800	--	--	--	--	--
18...	0830	1530	680	8.2	15.0	175	7.8	K150	220	64	60
JUL											
06...	1100	384	1100	--	17.0	25	--	--	--	--	--
AUG											
03...	1030	98	1250	8.4	16.5	10	8.5	35	370	200	90
04...	1600	91	1400	--	25.5	7	--	--	--	--	--
31...	0930	21	2000	8.2	17.0	8	8.0	K14	660	500	160
SEP											
07...	1510	15	1850	--	21.5	10	--	--	--	--	--
29...	0945	39	2100	8.4	9.5	10	8.5	K13	650	400	160

A-Daily mean discharge.
K-Results based on colony count outside the acceptable range (non-ideal colony count).

09224700 BLACKS FORK NEAR LITTLE AMERICA, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)
OCT										
04...	--	--	--	--	--	--	--	--	--	--
12...	40	230	4.8	4.9	150	--	120	710	68	.6
21...	98	400	5.6	6.8	190	1	160	1400	130	.8
NOV										
03...	--	--	--	--	--	--	--	--	--	--
29...	74	280	4.3	4.5	250	--	210	990	90	.7
DEC										
02...	--	--	--	--	--	--	--	--	--	--
20...	93	290	4.1	9.2	320	--	260	1100	140	.8
28...	--	--	--	--	--	--	--	--	--	--
JAN										
20...	64	190	3.2	6.5	310	--	250	650	120	.6
FEB										
03...	--	--	--	--	--	--	--	--	--	--
17...	58	190	3.4	5.8	310	--	250	590	97	.6
MAR										
03...	--	--	--	--	--	--	--	--	--	--
16...	32	150	3.5	4.6	180	--	150	400	61	.4
22...	--	--	--	--	--	--	--	--	--	--
27...	31	120	2.8	5.5	230	0	190	310	74	--
APR										
06...	--	--	--	--	--	--	--	--	--	--
MAY										
01...	--	--	--	--	--	--	--	--	--	--
02...	18	98	2.8	4.1	220	--	180	210	41	.4
22...	--	--	--	--	--	--	--	--	--	--
25...	19	55	1.5	3.9	190	0	160	140	26	.2
JUN										
06...	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--
18...	17	41	1.2	3.0	190	0	160	120	16	.2
JUL										
06...	--	--	--	--	--	--	--	--	--	--
AUG										
03...	36	130	2.9	3.7	210	0	170	400	38	.6
04...	--	--	--	--	--	--	--	--	--	--
31...	64	240	4.1	5.6	200	0	160	850	66	.7
SEP										
07...	--	--	--	--	--	--	--	--	--	--
29...	60	260	4.5	4.7	280	12	250	910	73	.7

09224700 BLACKS FORK NEAR LITTLE AMERICA, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITHO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)
OCT										
04...	--	--	--	--	--	--	--	--	--	--
12...	8.4	1250	1.70	64.1	.38	--	--	--	--	--
21...	5.4	2360	3.21	89.2	.02	.02	.00	.00	1.1	.44
NOV										
03...	--	--	--	--	--	--	--	--	--	--
29...	6.3	1770	2.41	115	.08	--	--	--	--	--
DEC										
02...	--	--	--	--	--	--	--	--	--	--
20...	7.0	2020	2.75	65.4	.13	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
JAN										
20...	7.0	1350	1.84	65.6	.06	--	--	--	--	--
FEB										
03...	--	--	--	--	--	--	--	--	--	--
17...	7.8	1240	1.69	110	.14	--	--	--	--	--
MAR										
03...	--	--	--	--	--	--	--	--	--	--
16...	6.6	830	1.13	650	.48	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
27...	7.9	753	1.02	610	.18	--	--	--	--	--
APR										
06...	--	--	--	--	--	--	--	--	--	--
MAY										
01...	--	--	--	--	--	--	--	--	--	--
02...	9.8	555	.75	1030	.59	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
25...	8.1	412	.56	1270	.05	--	--	--	--	--
JUN										
06...	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--
18...	10	361	.49	1490	.04	--	--	--	--	--
JUL										
06...	--	--	--	--	--	--	--	--	--	--
AUG										
03...	5.2	808	1.10	214	.01	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--
31...	5.9	1490	2.03	84.5	.04	--	--	--	--	--
SEP										
07...	--	--	--	--	--	--	--	--	--	--
29...	5.8	1630	2.22	172	.07	--	--	--	--	--

09224700 BLACKS FORK NEAR LITTLE AMERICA, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)
OCT										
04...	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	620	50	--
21...	1.1	.66	.44	.42	.02	.01	.03	950	110	60
NOV										
03...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	1100	60	--
DEC										
02...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	1400	100	--
28...	--	--	--	--	--	--	--	--	--	--
JAN										
20...	--	--	--	--	--	--	--	650	80	--
FEB										
03...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	540	60	--
MAR										
03...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	360	250	--
22...	--	--	--	--	--	--	--	--	--	--
27...	1.8	1.2	.59	1.4	--	.01	.03	--	20	--
APR										
06...	--	--	--	--	--	--	--	--	--	--
MAY										
01...	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	150	250	--
22...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	120	160	--
JUN										
06...	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	110	190	--
JUL										
06...	--	--	--	--	--	--	--	--	--	--
AUG										
03...	--	--	--	--	--	--	--	250	360	--
04...	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	450	1300	--
SEP										
07...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	720	190	--

09224700 BLACKS FORK NEAR LITTLE AMERICA, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	PCB, TOTAL (UG/L)	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG)	NAPHTHALENES, POLYCHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	CHLORDANE, TOTAL (UG/L)	CHLORDANE, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDD, TOTAL (UG/L)
OCT 18...	0930	15	2.0	.0	0	.00	.00	.0	.0	0	.00
MAY 21...	1330	1320	14.5	.0	0	.00	.00	.0	.0	0	.00

DATE	DDD, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDE, TOTAL (UG/L)	DDE, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOTTOM MATERIAL (UG/KG)	DIAZINON, TOTAL (UG/L)	DIELDRIN TOTAL (UG/L)	DIELDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	ENDOSULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)
OCT 18...	.0	.00	.1	.00	.0	.00	.00	.0	.00	.00	.0
MAY 21...	.0	.00	.1	.00	.0	.00	.00	.0	.00	.00	.0

DATE	ETHION, TOTAL (UG/L)	HEPTACHLOR, TOTAL (UG/L)	HEPTACHLOR, TOTAL IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR EPOXIDE TOTAL (UG/L)	HEPTACHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOTTOM MATERIAL (UG/KG)	MALATHION, TOTAL (UG/L)	METHYL PARATHION, TOTAL (UG/L)	METHYL TRITHION, TOTAL (UG/L)
OCT 18...	.00	.00	.0	.00	.0	.00	.0	.00	.00	.00
MAY 21...	.00	.00	.0	.00	.0	.00	.0	.00	.00	.00

DATE	PARATHION, TOTAL (UG/L)	TOXAPHENE, TOTAL (UG/L)	TOXAPHENE, TOTAL IN BOTTOM MATERIAL (UG/KG)	TOTAL TRITHION (UG/L)	2,4-D, TOTAL (UG/L)	2,4-D, TOTAL IN BOTTOM MATERIAL (UG/KG)	2,4,5-T TOTAL (UG/L)	2,4,5-T TOTAL IN BOTTOM MATERIAL (UG/KG)	SILVEX, TOTAL (UG/L)	SILVEX, TOTAL IN BOTTOM MATERIAL (UG/KG)
OCT 18...	.00	0	0	.00	.00	--	.00	--	.00	--
MAY 21...	.00	0	0	.00	.00	0	.00	0	.00	.0

DATE	TOTAL DICAMBA (UG/L)	DICAMBA IN BOTTOM MATERIAL (UG/KG)	TOTAL PICLORAM (UG/L)	PICLORAM IN BOTTOM MATERIAL (UG/KG)
MAY 21...	.00	0	.04	0

09224700 BLACKS FORK NEAR LITTLE AMERICA, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	TEMPER-ATURE (DEG C)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. FALL DIAM. % FINER THAN .500 MM
OCT												
04...	1130	8.0	6.3	11	.19	91	--	--	--	--	--	--
NOV												
03...	1340	7.0	17	30	1.4	--	--	--	--	--	--	--
DEC												
02...	1445	.0	57	232	36	99	--	--	--	--	--	--
28...	1520	.0	A13	34	1.2	--	--	--	--	--	--	--
FEB												
03...	1630	.0	A36	33	3.2	--	--	--	--	--	--	--
MAR												
03...	1030	.5	A83	146	33	99	--	--	--	--	--	--
22...	1400	5.0	636	5010	8600	--	67	89	96	98	100	--
APR												
06...	1330	10.0	318	646	556	98	--	--	--	--	--	--
MAY												
01...	1300	9.0	685	5060	9360	96	--	--	--	--	--	--
22...	1430	14.5	1410	1900	7230	68	--	--	--	--	--	--
JUN												
06...	1400	14.0	2450	8780	58100	--	49	70	92	97	100	--
07...	1635	16.5	1640	4220	18700	--	45	67	90	96	99	100
JUL												
06...	1100	17.0	384	135	140	84	--	--	--	--	--	--
AUG												
04...	1600	25.5	91	76	19	--	--	--	--	--	--	--
SEP												
07...	1510	21.5	15	47	1.9	--	--	--	--	--	--	--

A-Daily mean discharge.

DATE	TIME	TEMPER-ATURE (DEG C)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	NUMBER OF SAM-PLING POINTS	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM
SEP								
07...	1510	21.5	15	120	1	2	13	38

DATE	BED MAT. FALL DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 128 MM
SEP								
07...	40	40	42	45	54	82	98	99

09224700 BLACKS FORK NEAR LITTLE AMERICA, WY--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2900	3190	2220	2550	1740	---	904	781	776	932	1200	---
2	2950	3220	2080	2510	1720	---	900	786	778	940	1200	---
3	2970	3250	2040	2490	1710	---	904	760	781	1100	1200	---
4	1690	3100	2020	2470	1680	---	887	735	796	1090	1220	---
5	2960	2980	2040	2350	1690	---	885	725	798	1090	1210	---
6	1950	2990	2280	2210	1700	---	883	705	795	1090	1200	---
7	933	3050	2080	2240	1650	1030	885	685	791	1160	1190	---
8	827	3070	2140	2220	1570	1030	890	665	715	1220	1180	---
9	825	3150	2510	2260	1510	885	892	645	650	1290	1200	---
10	1400	3220	2300	2260	1490	846	857	650	558	1360	1220	---
11	1370	3220	2310	2800	1550	848	826	656	549	1420	1240	---
12	1920	3180	2320	2600	1650	1000	767	634	549	1410	1250	2310
13	1660	3050	2220	2400	1720	1170	777	584	554	1410	1260	2310
14	2040	2950	2120	2200	1730	1210	775	552	539	656	1100	2620
15	2600	2960	2740	2180	1730	1160	773	552	519	702	1250	1240
16	2600	2940	2780	2180	1730	1160	725	550	500	830	1220	1950
17	2810	2920	2780	2190	1730	1170	684	---	484	960	1200	---
18	2950	2890	2790	2180	1730	1000	698	---	550	1100	1400	---
19	3110	3150	2780	2180	1720	839	704	---	609	1220	1620	1970
20	3170	3420	2820	2210	1730	828	679	---	609	---	1550	1960
21	3190	3440	2810	2190	1720	825	690	---	610	---	1530	---
22	3210	3380	2810	2190	1360	822	700	---	---	---	1710	---
23	3170	2900	2710	2200	1340	828	707	---	---	---	1620	---
24	3180	2400	2750	2200	1350	875	712	---	---	---	1950	---
25	3080	2420	2800	2230	---	925	750	---	---	---	---	---
26	3100	2360	2860	2250	---	970	790	613	---	---	---	---
27	3040	2280	2940	2260	---	1020	835	590	---	---	---	---
28	3050	2240	2930	2240	---	1050	863	570	---	---	---	---
29	3100	2340	2700	1710	---	1070	825	550	---	1220	---	---
30	3120	2360	2470	1740	---	898	786	532	---	1210	---	---
31	3150	---	2450	1750	---	904	---	536	---	1180	---	---
MEAN	2520	2930	2500	2250	1640	975	798	639	643	1120	1330	2050

WTR YR 1978 MEAN 1680 MAX 3440 MIN 484

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.0	1.0	.0	.0	.0	---	10.5	8.0	14.5	20.0	25.0	---
2	14.0	2.0	.0	.0	.0	---	9.0	13.0	10.5	20.5	24.5	---
3	14.0	3.5	.0	.0	.0	---	7.0	11.0	9.5	21.0	23.0	---
4	6.5	4.0	.0	.0	.0	---	9.0	9.0	13.0	20.0	24.0	---
5	6.0	5.0	.0	.0	.0	---	9.5	10.0	14.5	20.0	24.0	---
6	6.5	6.5	.0	.0	.0	---	10.0	10.0	15.5	21.0	24.5	---
7	7.0	5.0	.5	.0	.0	.0	11.0	11.0	16.5	21.5	25.0	---
8	4.5	.5	.0	.0	.0	.0	12.0	12.0	17.0	22.0	26.0	---
9	4.5	1.0	.0	.0	.0	.5	13.0	13.5	17.0	22.5	25.0	---
10	3.0	1.0	.0	.0	.0	.0	12.0	12.0	17.5	23.0	24.0	---
11	1.5	1.0	.0	.0	.0	.0	10.5	12.0	17.0	23.5	23.0	---
12	1.5	1.5	.5	.0	.0	.0	10.0	10.0	18.5	25.0	22.5	20.5
13	4.5	2.0	.5	.0	.0	.0	9.0	14.0	18.5	24.5	21.5	21.0
14	4.5	2.0	.5	.0	.0	.5	11.0	15.0	19.0	24.0	14.5	19.0
15	7.0	1.5	.0	.0	.0	.0	12.5	16.5	19.5	22.0	18.5	14.5
16	13.0	1.0	.0	.0	.0	.5	8.0	13.5	19.0	22.0	15.0	17.0
17	11.5	.5	.0	.0	.0	.5	5.0	---	18.0	22.0	12.5	---
18	6.5	1.0	.0	.0	.0	1.0	7.5	---	18.5	22.0	15.0	---
19	11.5	.5	.0	.0	.0	1.5	9.0	---	19.0	21.5	21.0	5.0
20	6.5	.0	.0	.0	.0	3.0	7.0	---	19.5	---	21.0	5.5
21	6.5	.0	.0	.0	.0	4.0	7.0	---	20.5	---	21.0	---
22	6.5	.0	.0	.0	.0	4.5	8.0	---	---	---	18.5	---
23	5.0	.0	.0	.0	.0	6.5	8.0	---	---	---	20.5	---
24	5.5	.0	.0	.0	.0	7.0	10.5	---	---	---	21.0	---
25	8.0	.5	.0	.0	.0	8.0	10.0	---	---	---	---	---
26	13.0	1.0	.0	.0	.0	9.0	9.0	12.5	---	---	---	---
27	7.0	.0	.0	.0	.0	10.0	9.0	12.0	---	---	---	---
28	7.5	.5	.0	.0	.0	11.0	10.5	11.5	---	---	---	---
29	8.0	.0	.0	.0	---	12.5	10.5	11.0	---	24.0	---	---
30	5.5	.0	.0	.0	---	11.0	10.5	10.5	---	22.5	---	---
31	2.5	---	.0	.0	---	9.0	---	13.0	---	23.0	---	---
MEAN	7.0	1.5	.0	.0	.0	4.0	9.5	12.0	17.0	22.0	21.5	14.5

WTR YR 1978 MEAN 8.0 MAX 26.0 MIN .0

09225200 SQUAW HOLLOW NEAR BURNTFORK, WY

LOCATION.--Lat 41°10'14", long 109°36'34", in NE¼NW¼ sec.29, T.14 N., R.108 W., Sweetwater County, Hydrologic Unit 14040106, 0.1 mi (0.2 km) downstream from culvert on State Highway 530, 2.1 mi (3.4 km) upstream from normal pool level of Flaming Gorge Reservoir, and 22 mi (35 km) northeast of Burntfork.

DRAINAGE AREA.--6.57 mi^2 (17.0 km^2).

PERIOD OF RECORD.--September 1977 to September 1978 (discontinued).

REMARKS.--Peak-flow information also collected at this site.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)
MAY							
09...	1130	.35	840	12.0	2700	12800	12

09228500 BURNT FORK NEAR BURNTFORK, WY

LOCATION.--Lat 40°56'47", long 110°03'56", in NE¼SE¼SE¼ sec.36, T.3 N., R.16 E., Summit County, UT, Hydrologic Unit 14040106, Wasatch National Forest, on left bank 0.6 mi (1.0 km) upstream from forest boundary and 6.5 mi (10.5 km) southwest of Burntfork.

DRAINAGE AREA.--52.8 mi² (136.8 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1943 to current year (no winter records since 1971). Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 1243: 1944.

GAGE.--Water-stage recorder. Altitude of gage is 8,430 ft (2,569 m), from topographic map. Prior to June 10, 1965, water-stage recorder at site 0.5 mi (0.8 km) downstream at different datum. June 10 to Oct. 5, 1965, water-stage recorder at site 400 ft (122 m) downstream at different datum.

REMARKS.--Records poor. Flow is partially regulated by Island Lake, capacity, 797 acre-ft (0.983 hm³), and Beaver Meadows Reservoir, capacity, 1,722 acre-ft (2.12 hm³). Diversion out of basin above station into Hoop Lake, capacity, 3,920 acre-ft (4.83 hm³).

AVERAGE DISCHARGE.--28 years (water years 1944-71), 31.1 ft³/s (0.881 m³/s), 22,530 acre-ft/yr (27.8 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,200 ft³/s (90.6 m³/s) June 10, 1965 (gage height, not determined), from slope-area measurement of peak flow; minimum daily, 0.65 ft³/s (0.018 m³/s) Mar. 31, 1967.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 362 ft³/s (10.3 m³/s) June 10, gage height, 3.32 ft (1.012 m); minimum daily during period of operation, 2.1 ft³/s (0.059 m³/s) Apr. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							4.8	7.2	72	159	20	12
2							4.2	7.4	79	139	18	12
3							4.2	7.2	96	118	16	12
4							4.0	6.8	109	102	14	12
5							4.0	5.8	110	91	14	11
6							4.0	5.6	118	93	15	10
7							4.0	5.6	133	95	15	10
8							4.0	5.8	153	98	14	11
9							4.2	6.2	210	82	14	10
10							4.4	8.0	283	70	14	9.3
11							4.8	9.0	256	62	16	9.7
12							5.4	10	212	56	19	9.7
13							5.4	12	286	52	22	10
14							5.4	23	250	50	25	10
15							5.1	28	247	50	23	10
16							4.5	35	218	50	20	9.7
17							3.8	29	180	54	18	10
18							3.0	24	160	58	19	13
19							2.1	23	144	54	18	14
20							3.9	29	125	48	16	14
21							4.8	36	155	46	16	14
22							4.2	38	192	44	16	14
23							3.8	48	244	42	15	13
24							4.7	53	218	40	14	12
25							6.3	48	190	36	14	12
26							7.7	52	159	32	14	12
27							7.2	55	141	24	14	12
28							6.3	57	141	22	14	11
29							6.3	78	147	21	13	11
30							6.3	84	157	21	13	10
31							---	70	---	20	13	---
TOTAL							142.8	906.6	5185	1929	506	340.4
MEAN							4.76	29.2	173	62.2	16.3	11.3
MAX							7.7	84	286	159	25	14
MIN							2.1	5.6	72	20	13	9.3
AC-FT							283	1800	10280	3830	1000	675

09228500 BURNT FORK NEAR BURNTFORK, WY--Continued

WATER-QUALITY RECORD

PERIOD OF RECORD.--Water years 1969-70, 1975 to September 1978 (discontinued).

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)
OCT 21...	1200	12	50	7.6	3.5	1	9.7	13	2	3.9	.8	.8
MAR 29...	1235	8.5	60	--	.0	2	--	--	--	--	--	--
APR 20...	1720	6.3	34	--	7.0	1	--	--	--	--	--	--
JUN 19...	1550	135	25	--	10.0	4	--	--	--	--	--	--
JUL 10...	1305	68	19	--	13.0	2	--	--	--	--	--	--
AUG 04...	1815	14	34	--	17.0	1	--	--	--	--	--	--
SEP 08...	1345	11	30	--	9.0	1	--	--	--	--	--	--

DATE	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 105 DEG. C, DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)
OCT 21...	.1	.4	14	0	11	2.3	.7	.0	5.1	22	21	.03
MAR 29...	--	--	--	--	--	--	--	--	--	--	--	--
APR 20...	--	--	--	--	--	--	--	--	--	--	--	--
JUN 19...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 10...	--	--	--	--	--	--	--	--	--	--	--	--
AUG 04...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 08...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	SOLIDS, DISSOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)
OCT 21...	.71	1	.01	.10	.02	.03	.21	.07	.31	.22	.09
MAR 29...	--	--	--	--	--	--	--	--	--	--	--
APR 20...	--	--	--	--	--	--	--	--	--	--	--
JUN 19...	--	--	--	--	--	--	--	--	--	--	--
JUL 10...	--	--	--	--	--	--	--	--	--	--	--
AUG 04...	--	--	--	--	--	--	--	--	--	--	--
SEP 08...	--	--	--	--	--	--	--	--	--	--	--

09228500 BURNT FORK NEAR BURNTFORK, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	PHYTO-PLANK-TON, TOTAL (CELLS PER ML)	IN-VERTE-BRATES, BENTHIC WET WT. (G/SQ METER)	BIOMASS CHLORO-PHYLL RATIO PLANK-TON (UNITS)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
OCT 21...	.02	.00	.00	.00	490	1.6	.00	.115	.023	7	.24
MAR 29...	--	--	--	--	--	--	--	--	--	4	.09
APR 20...	--	--	--	--	--	--	--	--	--	6	.10
JUN 19...	--	--	--	--	--	--	--	--	--	12	4.4
JUL 10...	--	--	--	--	--	--	--	--	--	4	.73
AUG 04...	--	--	--	--	--	--	--	--	--	5	.19
SEP 08...	--	--	--	--	--	--	--	--	--	4	.12

DATE	TIME	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, DIS-SOLVED (UG/L AS CU)
OCT 21...	1200	10	0	100	6	0	0	0

DATE	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT 21...	50	0	4	.0	0	0	0	0

DATE	TIME	GROSS ALPHA, DIS-SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L)	URANIUM DIS-SOLVED, EXTRAC-TION (UG/L)
OCT 21...	1200	<.4	<.4	1.3	<.4	1.1	<.4	.04	.08

DATE	TIME	TEMPER-ATURE (DEG C)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	NUMBER OF SAM-PLING POINTS	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 128 MM
SEP 08...	1345	9.0	11	100	1	3	11	27	55

09228500 BURNT FORK NEAR BURNTFORK, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 21,77
TIME	1200
TOTAL CELLS/ML	490
DIVERSITY: DIVISION	0.7
.CLASS	0.7
..ORDER	0.7
...FAMILY	2.3
....GENUS	2.4

ORGANISM	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...OOCYSTACEAE		
....ANKISTRODESMUS	14	3
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...ACHNANTHACEAE		
....COCCONEIS	27	6
...CYMBELLACEAE		
....CYMBELLA	27	6
...FRAGILARIACEAE		
....ASTERIONELLA	220#	44
...NAVICULACEAE		
....NAVICULA	95#	19
...NITZSCHIACEAE		
....HANTZSCHIA	14	3
....NITZSCHIA	41	8
CYANOPHYTA (BLUE-GREEN ALGAE)		
.CYANOPHYCEAE		
..HORMOGONALES		
...OSCILLATORIACEAE		
....OSCILLATORIA	54	11

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

OCT. 21, 1977
1200 HOURS

IDENTIFICATION OF PERIPHYTON

ORGANISM NAME	COMMON NAME
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..ULOTRICHALES	
...ULOTRICHACEAE	
....ULOTHRIX	
..ZYGNEMATALES	
...DESMIDIACEAE	PLACODERM DESMIDS
....CLOSTERIUM	
....COSMARIUM	
...ZYGNEMATACEAE	
& ....SPIROGYRA	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..CENTRALES	CENTRIC
...COSCINODISCACEAE	
....MELOSIRA	
..PENNALES	PENNATE
...ACHNANTHACEAE	
....COCCONEIS	
...CYMBELLACEAE	
....CYMBELLA	
...FRAGILARIACEAE	
....HANNAEA	
....SYNEDRA	
...GOMPHONEMATACEAE	
....GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
....NAVICULA	
...NITZSCHIACEAE	
....NITZSCHIA	
CYANOPHYTA	BLUE-GREEN ALGAE
.CYANOPHYCEAE	
..HORMOGONALES	FILAMENTOUS BL-GREEN
...OSCILLATORIACEAE	
& ....LYNGBYA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

09228500 BURNT FORK NEAR BURNTFORK, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

BENTHIC INVERTEBRATE ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 21,77
TIME	1200
TOTAL COUNT	169
DIVERSITY: PHYLUM	0.0
.CLASS	0.1
..ORDER	1.4
...FAMILY	2.4
....GENUS	2.7
....GENUS-INSECTA	2.6

ORGANISM	COUNT
ARTHROPODA (ARTHROPODS)	
.INSECTA	
..DIPTERA	
...CHIRONOMIDAE	
....CONCHAPELOPIA	1
....EUKIEFFERIELLA	5
....HETEROTRISSOCLADIUS	1
....ORTHOCLADIUS	5
....TANYTARSUS	4
...PSYCHODIDAE	
....PERICOMA	1
..EPHEMEROPTERA	
...BAETIDAE	
....BAETIS	1
....PSEUDOCLOEON	70
...EPHEMERELLIDAE	
....EPHEMERELLA	35
...HEPTAGENIIDAE	
....CINYGMULA	3
....RHITHROGENA	1
..PLECOPTERA	
...CHLOROPERLIDAE	
....UNKNOWN GENUS	3
..TRICHOPTERA	
...GLOSSOSOMATIDAE	
....GLOSSOSOMA	1
...HYDROPSYCHIDAE	
....ARCTOPSYCHE	4
...LIMNEPHILIDAE	
....OLIGOPHLEBODES	26
...RHYACOPHILIDAE	
....RHYACOPHILA	5
..PLECOPTERA	
...PERLODIDAE	
....ARCYNOPTERYX	1
.ARACHNIDA	
..HYDRACARINA	
...UNKNOWN FAMILY	
....UNKNOWN GENUS #3	2

09229500 HENRYS FORK NEAR MANILA, UT

LOCATION.--Lat 41°00'45", long 109°40'20", in NW¼NW¼ sec.23, T.12 N., R.109 W., Sweetwater County, WY, Hydrologic Unit 14040106, on right bank 0.8 mi (1.3 km) north of Wyoming-Utah State line, 1.3 mi (2.1 km) upstream from normal high-water line of Flaming Gorge Reservoir at elevation 6,045 ft (1,843 m), and 3.0 mi (4.8 km) northeast of Manila, UT.

DRAINAGE AREA.--520 mi² (1,350 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1928 to current year. Prior to October 1971, published as "at Linwood, UT."

REVISED RECORDS.--WSP 1443: 1955. WDR WY-76-2: 1970.

GAGE.--Water-stage recorder. Altitude of gage is 6,060 ft (1,847 m), from topographic map. Prior to Oct. 1, 1957, nonrecording gages or water-stage recorder at several sites about 2.0 mi (3.2 km) downstream at various datums. Oct. 1, 1957, to Dec. 2, 1965, water-stage recorders at sites about 1.0 mi (1.6 km) upstream at different datums.

REMARKS.--Records fair except those for winter period, which are poor. Peoples Irrigation Canal diverts 5.9 mi (9.5 km) upstream. Natural flow of stream affected by transbasin diversions, small storage reservoirs, diversions for irrigation, and return flow from irrigated areas.

AVERAGE DISCHARGE.--50 years, 82.2 ft³/s (2.328 m³/s), 59,550 acre-ft/yr (73.4 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge determined, 6,750 ft³/s (191 m³/s) Aug. 3, 1936, gage height, 7.19 ft (2.192 m), site and datum then in use, from floodmarks, from rating curve extended above 570 ft³/s (16.1 m³/s) on basis of slope-area measurement of peak flow; higher discharge occurred July 15, 1959, gage height, 9.42 ft (2.871 m), discharge not determined; no flow for several days in 1933-35, 1939-40.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,200 ft³/s (34.0 m³/s) June 15, gage height, 5.44 ft (1.658 m); minimum daily, 1.1 ft³/s (0.031 m³/s) Oct. 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.0	22	29	32	34	52	68	110	107	132	5.9	2.8
2	3.9	33	30	30	35	47	76	117	102	102	5.6	2.3
3	3.9	32	32	28	36	47	62	83	249	81	5.6	2.1
4	3.9	26	30	29	37	46	57	48	375	66	4.5	2.1
5	2.8	25	27	32	38	45	50	30	446	48	5.2	2.1
6	2.3	30	26	33	40	47	45	33	360	37	5.4	2.1
7	2.3	37	28	35	43	47	42	51	243	40	2.3	1.9
8	2.1	34	27	34	45	43	42	107	283	35	2.6	2.1
9	2.1	29	26	33	47	51	40	107	365	17	3.3	2.1
10	2.1	25	28	34	47	55	39	90	622	13	2.8	1.7
11	2.1	27	31	36	45	55	37	66	904	11	3.6	1.9
12	1.9	30	34	37	47	62	28	43	928	9.2	7.4	1.9
13	1.7	35	37	38	49	51	22	24	778	9.7	2.8	2.1
14	1.7	40	39	38	49	42	23	15	946	7.8	6.6	2.1
15	1.5	40	41	39	48	37	22	12	1090	6.6	7.0	2.1
16	1.1	40	41	40	46	39	23	9.2	952	6.2	3.9	2.3
17	1.5	37	38	39	45	47	23	42	736	8.2	4.2	2.3
18	1.3	34	36	37	44	57	20	92	574	7.8	3.9	9.8
19	1.9	32	33	36	44	81	18	55	468	7.8	3.3	3.9
20	2.6	29	31	35	45	97	17	35	420	8.2	2.6	2.1
21	3.6	27	28	34	47	104	16	26	410	4.8	2.3	1.7
22	4.2	27	26	32	50	115	15	32	400	4.2	3.3	1.7
23	4.5	30	25	30	54	115	15	32	400	4.2	2.8	1.7
24	5.2	31	27	29	56	94	15	42	365	3.6	2.8	1.7
25	5.2	33	29	31	54	68	12	48	355	8.0	2.6	1.7
26	3.9	35	30	34	51	64	3.9	43	318	3.0	2.6	1.7
27	7.2	36	29	32	51	66	8.2	42	251	3.0	2.6	1.7
28	15	33	28	31	53	68	39	61	187	3.6	2.8	1.9
29	15	30	30	31	---	68	43	53	174	3.3	2.8	1.9
30	17	29	32	32	---	66	100	81	171	4.5	3.0	1.9
31	18	---	34	33	---	61	---	123	---	5.6	3.3	---
TOTAL	144.5	948	962	1044	1280	1937	1021.1	1752.2	13979	701.3	119.4	69.4
MEAN	4.66	31.6	31.0	33.7	45.7	62.5	34.0	56.5	466	22.6	3.85	2.31
MAX	18	40	41	40	56	115	100	123	1090	132	7.4	9.8
MIN	1.1	22	25	28	34	37	3.9	9.2	102	3.0	2.3	1.7
AC-FT	287	1880	1910	2070	2540	3840	2030	3480	27730	1390	237	138

CAL YR 1977 TOTAL 6363.44 MEAN 17.4 MAX 115 MIN .92 AC-FT 12620
WTR YR 1978 TOTAL 23957.90 MEAN 65.6 MAX 1090 MIN 1.1 AC-FT 47520

09229500 HENRYS FORK NEAR MANILA, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1951 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: March 1951 to current year.
WATER TEMPERATURES: March 1951 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 3,750 micromhos Oct. 15, 1961; minimum daily, 378 micromhos June 16, 1978.
WATER TEMPERATURES: Maximum, 29.0°C July 29, 1968; minimum, 0.0°C on many days during winter period.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum daily, 2,380 micromhos July 23; minimum daily, 378 micromhos June 16.
WATER TEMPERATURES: Maximum, 25.5°C July 27; minimum, 0.0°C on many days during November to March.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO
OCT											
12...	1415	1.9	2200	10.5	2	1100	850	220	130	95	1.3
NOV											
01...	1305	22	1600	5.0	20	830	590	180	92	73	1.1
DEC											
05...	1330	A27	1350	.5	50	610	360	140	63	48	.8
JAN											
06...	1130	A33	1050	.0	10	600	360	140	61	44	.8
FEB											
03...	1130	A36	1090	.0	15	590	360	140	58	41	.7
MAR											
10...	1135	48	1050	3.0	700	500	290	120	48	56	1.1
22...	1100	123	790	5.5	340	370	160	90	35	36	.8
30...	1215	66	--	10.0	--	400	170	96	38	42	.9
MAY											
09...	1440	102	890	12.5	700	360	140	90	34	58	1.3
18...	1205	97	870	9.0	360	--	--	--	--	--	--
JUN											
02...	1330	92	850	15.5	70	420	210	99	41	32	.7
15...	1500	1110	410	16.0	400	--	--	--	--	--	--
19...	1215	456	440	15.0	160	--	--	--	--	--	--
26...	1355	308	520	16.5	45	--	--	--	--	--	--
JUL											
19...	0900	7.8	2000	15.0	90	920	650	210	95	82	1.2
AUG											
07...	1235	2.6	2000	21.0	2	1100	910	240	130	96	1.2
SEP											
08...	1250	2.1	2000	18.0	4	1100	860	240	120	110	1.4

A-Daily mean discharge.

09229500 HENRYS FORK NEAR MANILA, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)
OCT										
12...	13	290	--	240	990	40	.6	18	1660	2.26
NOV										
01...	11	290	--	240	660	26	.4	23	1210	1.65
DEC										
05...	8.3	300	--	250	430	19	.4	20	878	1.19
JAN										
06...	8.2	290	--	240	410	22	.4	19	848	1.15
FEB										
03...	7.2	280	--	230	380	22	.5	17	807	1.10
MAR										
10...	11	250	--	210	360	18	.4	13	755	1.03
22...	9.7	250	--	210	210	19	.3	16	540	.73
30...	7.6	270	3	230	250	16	--	17	603	.82
MAY										
09...	11	280	--	230	240	18	.4	20	611	.83
18...	--	--	--	--	--	--	--	--	--	--
JUN										
02...	7.8	250	--	210	240	14	.3	18	577	.78
15...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--
JUL										
19...	13	320	--	260	760	33	.5	26	1390	1.89
AUG										
07...	15	280	--	230	990	37	.6	18	1680	2.28
SEP										
08...	14	280	--	230	1000	41	.7	16	1690	2.30

DATE	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)
OCT										
12...	8.52	1.7	--	--	--	--	--	--	380	140
NOV										
01...	71.9	.32	--	--	--	--	--	--	240	60
DEC										
05...	64.0	.25	--	--	--	--	--	--	170	50
JAN										
06...	75.6	.05	--	--	--	--	--	--	170	30
FEB										
03...	78.4	.71	--	--	--	--	--	--	170	70
MAR										
10...	97.8	1.2	--	--	--	--	--	--	150	70
22...	179	.20	--	--	--	--	--	--	120	220
30...	107	.03	.77	.09	.68	.01	.01	.03	--	150
MAY										
09...	168	.28	--	--	--	--	--	--	120	50
18...	--	--	--	--	--	--	--	--	--	--
JUN										
02...	143	.23	--	--	--	--	--	--	140	50
15...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--
JUL										
19...	29.3	2.4	--	--	--	--	--	--	360	130
AUG										
07...	11.8	3.2	--	--	--	--	--	--	420	80
SEP										
08...	9.58	1.5	--	--	--	--	--	--	410	50

09229500 HENRYS FORK NEAR MANILA, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	TEMPER-ATURE (DEG C)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. FALL DIAM. % FINER THAN .500 MM
OCT											
12...	1415	10.5	1.9	9	.05	--	--	--	--	--	--
NOV											
01...	1305	5.0	22	134	8.0	--	--	--	--	--	--
DEC											
05...	1330	.5	A27	161	12	--	--	--	--	--	--
JAN											
06...	1130	.0	A33	88	7.8	--	--	--	--	--	--
FEB											
03...	1130	.0	A36	50	4.9	--	--	--	--	--	--
MAR											
10...	1135	3.0	48	2140	277	--	--	--	--	--	--
22...	1100	5.5	123	1280	425	64	90	100	--	--	--
MAY											
09...	1440	12.5	102	2460	677	79	96	100	--	--	--
18...	1205	9.0	97	1250	327	71	90	100	--	--	--
JUN											
02...	1330	15.5	92	228	57	--	--	--	--	--	--
15...	1500	16.0	1110	2660	7970	25	47	67	87	98	100
19...	1215	15.0	456	872	1070	28	48	67	87	99	100
26...	1355	16.5	308	301	250	--	--	--	--	--	--
JUL											
19...	0900	15.0	7.8	274	5.8	--	--	--	--	--	--
AUG											
07...	1235	21.0	2.6	23	.16	--	--	--	--	--	--
SEP											
08...	1250	18.0	2.1	106	.60	--	--	--	--	--	--

A-Daily mean discharge.

DATE	TIME	TEMPER-ATURE (DEG C)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	NUMBER OF SAM-PLING POINTS	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM
SEP								
08...	1250	18.0	2.1	120	22	23	24	26

DATE	BED MAT. FALL DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 128 MM
SEP								
08...	26	26	28	30	40	62	77	97

09229500 HENRYS FORK NEAR MANILA, UT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1730	1550	1340	1200	1090	1140	873	947	797	751	1720	1940
2	1940	1450	1360	1230	1110	1050	852	923	868	760	1790	2060
3	2010	1450	1190	1320	1090	1320	909	980	960	820	1750	2030
4	2040	1520	1120	1290	1060	1040	964	1040	756	848	1970	2150
5	2210	1440	1240	1220	1120	1040	998	1060	693	1090	1760	2110
6	2220	1360	1280	1150	1090	1050	1040	1140	676	1040	1660	2110
7	2100	1400	1290	1140	1060	1060	1050	1160	713	1500	2000	2010
8	2120	1400	1270	1120	1060	1090	1070	968	623	940	2270	2050
9	2120	1360	1300	1120	1100	1110	1060	836	602	1280	1760	1810
10	2130	1390	1310	1120	1190	1080	1100	926	592	1360	1910	1950
11	2110	1380	1250	1140	1060	1100	1120	970	480	1480	1910	2160
12	2120	1220	1250	1090	1080	1060	1120	1040	408	1550	1700	2140
13	2110	1210	1210	1100	1080	1080	1200	1100	420	1510	1880	2130
14	2120	1170	1210	1100	1140	1090	1240	1180	441	1640	1640	2140
15	2120	1230	1090	1120	1170	1090	1220	1230	394	1810	1600	2160
16	2140	1180	1160	1050	1050	1100	1220	1360	378	1920	1740	2120
17	2050	1180	1360	1070	1060	1080	1250	988	406	1810	1740	2060
18	1970	1240	1350	1080	1120	992	1260	902	438	1610	1800	1500
19	1830	1200	1460	1100	1210	883	1280	992	477	1540	1770	1480
20	1910	1310	1380	1090	1100	784	1340	1130	481	1580	2010	1850
21	1830	1430	1470	1090	1030	775	1340	1200	502	2180	2110	1950
22	1830	1440	1470	1120	1070	751	1380	1150	504	2300	1660	1910
23	1730	1340	1450	1150	982	856	1440	1120	514	2380	1940	1950
24	1740	1210	1390	1120	1010	923	1460	1210	516	1920	1990	1980
25	1710	1120	1340	1140	990	935	1470	1110	525	1760	2060	2020
26	1700	1070	1290	1140	1010	977	1640	1060	596	1840	2010	1820
27	1740	1050	1300	1100	998	982	1390	1140	630	2230	2100	2040
28	1710	1190	1260	1100	1000	914	1480	980	672	2300	2040	2020
29	1680	1160	1230	1110	---	873	1080	1060	693	2280	2030	2060
30	1670	1140	1170	1110	---	868	992	931	672	2300	1950	2000
31	1630	---	1210	1110	---	873	---	798	---	1820	2070	---
MEAN	1940	1290	1290	1130	1080	1000	1200	1050	581	1620	1880	1990

WTR YR 1978 MEAN 1340 MAX 2380 MIN 378

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.0	5.0	.0	.0	.0	1.0	10.0	10.0	17.0	22.0	23.5	22.0
2	14.0	6.0	.0	.0	.0	2.0	9.5	14.0	17.0	22.5	23.0	23.0
3	16.0	8.0	.0	.0	.0	.0	9.0	16.0	14.0	23.0	22.5	22.0
4	16.0	9.0	.0	.0	.0	.0	9.5	10.0	13.0	24.0	23.5	21.5
5	14.0	9.0	1.0	.0	.0	.0	10.5	8.0	14.0	22.0	21.5	22.0
6	12.0	10.5	1.0	.0	1.5	.0	9.0	10.0	17.0	18.0	23.0	20.0
7	12.0	7.0	1.5	.0	2.0	1.0	11.0	10.5	18.5	20.0	24.0	19.5
8	14.0	2.0	.0	.0	2.0	2.0	12.0	12.0	24.0	22.0	23.0	19.0
9	14.0	7.0	.0	.0	.0	2.0	12.0	18.0	19.0	22.0	25.0	18.0
10	9.0	7.5	.5	.0	.0	2.0	12.0	13.0	16.0	22.5	23.0	18.5
11	12.0	7.5	.5	.0	.0	4.0	16.0	13.0	15.0	24.0	21.0	15.0
12	14.0	6.0	.5	.0	.0	1.0	13.0	15.0	16.0	24.5	20.0	13.5
13	14.0	5.0	1.0	.0	.0	2.0	14.0	17.0	17.0	25.0	17.0	16.0
14	15.0	5.0	1.0	.0	.0	2.0	15.0	21.0	18.0	20.0	14.0	15.5
15	16.0	5.0	.5	.0	.0	.0	15.0	20.5	19.0	24.0	19.5	15.0
16	16.0	5.0	.0	.0	.0	.0	15.0	10.0	16.5	20.0	20.5	17.0
17	14.0	5.0	.0	.0	.0	8.0	9.0	10.0	17.0	23.5	13.0	12.0
18	12.5	5.0	.0	.0	.0	9.0	10.5	11.0	16.5	20.5	19.0	10.0
19	12.5	5.0	.0	.0	.0	8.0	12.0	16.0	20.0	22.0	20.5	10.0
20	12.0	2.0	.0	.0	.0	5.0	10.0	18.0	19.0	24.0	23.0	11.0
21	11.5	.0	.0	.0	1.0	4.5	7.0	16.5	20.0	23.5	21.0	15.0
22	12.0	1.0	.0	.0	2.0	5.5	8.0	16.0	21.0	24.0	20.0	16.0
23	12.0	.0	.0	.0	2.0	7.0	12.0	18.0	20.0	22.0	21.0	17.5
24	12.0	5.0	.0	.0	2.0	7.5	15.5	16.0	21.0	24.0	20.0	19.0
25	12.0	5.0	.0	.0	1.0	8.0	15.0	17.0	21.0	24.0	22.5	19.0
26	12.0	1.0	.0	.0	.0	11.5	14.5	16.0	19.0	24.0	21.5	15.0
27	12.0	1.0	.0	.0	1.0	11.5	13.0	15.0	21.0	25.5	21.0	18.0
28	10.5	2.0	.0	.0	3.0	13.0	14.0	15.5	20.0	20.0	21.0	25.5
29	12.0	.0	.0	.0	---	13.0	9.0	17.0	20.0	25.0	21.0	16.5
30	8.0	.0	.0	.0	---	13.5	8.5	16.0	22.0	24.0	22.0	15.0
31	4.5	---	.0	.0	---	12.0	---	18.0	---	21.0	16.0	---
MEAN	12.5	4.5	.0	.0	.5	5.0	11.5	14.5	18.5	22.5	21.0	17.0

WTR YR 1978 MEAN 11.0 MAX 25.5 MIN .0

09234400 FLAMING GORGE RESERVOIR AT FLAMING GORGE DAM, UT

LOCATION.--Lat 40°54'23", long 109°25'15", in NW¼NE¼ sec.15, T.2 N., R.22 E., Daggett County, Hydrologic Unit 14040106, at Flaming Gorge Dam on Green River, 1.8 mi (2.9 km) southwest of Dutch John, and 4.9 mi (7.9 km) northeast of Greendale.

DRAINAGE AREA.--19,350 mi² (50,100 km²), approximately, of which about 4,260 mi² (11,000 km²), including 3,959 mi² (10,254 km²) in Great Divide Basin in southern Wyoming, is probably noncontributing.

PERIOD OF RECORD.--November 1962 to current year.

REVISED RECORDS.--WDR UT-76-1: Drainage area.

GAGE.-- Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Bureau of Reclamation). Prior to Jan. 1, 1964, on left bank 600 ft (180 m) upstream from face of dam.

REMARKS.--Records excellent. Reservoir is formed by concrete arch-type dam; storage began Nov. 1, 1962; mass concrete of dam completed Nov. 15, 1962. Total capacity, 3,789,000 acre-ft (4,670 hm³), consisting of the following: Dead storage, 39,700 acre-ft (49.0 hm³) below elevation 5,740 ft (1,750 m); inactive storage, 233,500 acre-ft (288 hm³) between elevations 5,740 ft (1,750 m) and 5,871 ft (1,789 m); usable contents, 3,516,000 acre-ft (4,340 hm³) between elevations 5,871 ft (1,789 m) and 6,040 ft (1,841 m), top of conservation pool. Reservoir is used for flood control, storage replacement to meet downstream requirements under the Colorado River Compact of 1922, and power development. Figures given herein represent usable contents. Transbasin diversions and diversions for irrigation above station.

COOPERATION.--Records furnished by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 3,753,000 acre-ft (4,630 hm³) July 31, 1975, elevation, 6,040.09 ft (1,841.019 m); minimum, 582,900 acre-ft (719 hm³) Apr. 26, 1965.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 2,848,000 acre-ft (3,510 hm³) Aug. 20, 21, elevation, 6,016.29 ft (1,833.765 m); minimum observed, 1,978,000 acre-ft (2,440 hm³) Mar. 4, 5, elevation, 5,987.64 ft (1,825.033 m).

Capacity table (elevation, in feet, and usable contents, in acre-feet)

5,985	1,908,000	6,005	2,480,000
5,990	2,042,000	6,010	2,639,000
5,995	2,181,000	6,015	2,804,000
6,000	2,327,000	6,020	2,977,000

CONTENTS, IN THOUSANDS OF ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2077	2041	2013	1990	1985	1983	2001	2071	2254	2645	2810	2837
2	2076	2040	2011	1989	1982	1982	2004	2075	2269	2648	2815	2837
3	2075	2038	2009	1988	1983	1979	2006	2077	2278	2654	2818	2837
4	2073	2037	2008	1986	1983	1978	2008	2079	2290	2657	2822	2836
5	2071	2038	2008	1985	1982	1978	2009	2086	2303	2662	2827	2834
6	2070	2036	2006	1985	1982	1979	2011	2091	2316	2667	2831	2832
7	2069	2036	2006	1984	1983	1979	2016	2096	2330	2673	2833	2830
8	2068	2034	2004	1985	1983	1980	2016	2099	2341	2681	2834	2827
9	2068	2033	2003	1985	1983	1981	2017	2104	2354	2688	2835	2830
10	2066	2032	2002	1985	1984	1981	2017	2109	2369	2693	2834	2830
11	2064	2031	2001	1985	1985	1982	2018	2114	2384	2697	2834	2829
12	2063	2030	2002	1986	1984	1985	2021	2119	2399	2704	2835	2828
13	2062	2029	2001	1987	1984	1986	2023	2124	2414	2711	2840	2829
14	2061	2028	2001	1988	1984	1988	2025	2130	2430	2716	2842	2830
15	2060	2026	2001	1989	1984	1989	2027	2134	2447	2724	2844	2829
16	2059	2026	2001	1990	1984	1991	2031	2141	2466	2730	2843	2831
17	2058	2026	2000	1991	1985	1992	2033	2147	2484	2737	2845	2832
18	2057	2026	1999	1991	1985	1993	2034	2153	2503	2742	2846	2836
19	2056	2026	1999	1991	1986	1994	2036	2160	2518	2747	2847	2838
20	2055	2024	1998	1991	1985	1994	2037	2165	2534	2753	2848	2837
21	2054	2022	1997	1992	1987	1998	2040	2172	2552	2759	2848	2837
22	2053	2020	1995	1992	1989	2000	2042	2178	2568	2765	2845	2836
23	2052	2018	1994	1992	1990	2000	2044	2184	2580	2772	2844	2837
24	2052	2016	1993	1992	1990	1999	2046	2190	2593	2778	2843	2838
25	2050	2017	1993	1992	1990	2000	2047	2196	2604	2783	2841	2838
26	2049	2016	1992	1992	1988	2000	2049	2201	2610	2787	2841	2836
27	2048	2017	1992	1990	1987	2001	2053	2209	2619	2790	2842	2833
28	2047	2016	1992	1990	1985	2000	2055	2219	2625	2794	2842	2830
29	2047	2014	1992	1990	---	1998	2058	2228	2632	2800	2841	2827
30	2045	2014	1990	1989	---	1997	2065	2237	2638	2804	2839	2825
31	2043	---	1990	1986	---	1997	---	2245	---	2807	2839	---
MAX	2077	2041	2013	1992	1990	2001	2065	2245	2638	2807	2848	2838
MIN	2043	2014	1990	1984	1982	1978	2001	2071	2254	2645	2810	2825
(†)	5990.05	5988.98	5988.10	5987.98	5987.90	5988.37	5990.85	5997.22	6009.99	6015.09	6016.02	6015.62
(‡)	-36	-29	-24	-4	-1	+12	+68	+180	+393	+169	+32	-14

CAL YR 1977 MAX 3127 MIN 1990
WTR YR 1978 MAX 2848 MIN 1978

(†) Elevation, in feet, at end of month.
(‡) Change in contents, in thousands of acre-feet.

09234500 GREEN RIVER NEAR GREENDALE, UT

LOCATION.--Lat 40°54'30", long 109°25'20", in NW¼SE¼ sec.15, T.2 N., R.22 E., Daggett County, Hydrologic Unit 14040106, Ashley National Forest, on right bank 0.5 mi (0.8 km) downstream from Flaming Gorge Dam, 2 mi (3 km) south of Dutch John, 4 mi (6 km) northeast of Greendale, and 407.0 mi (654.9 km) from mouth.

DRAINAGE AREA.--19,350 mi² (50,100 km²), approximately, of which about 4,260 mi² (11,000 km²), including 3,959 mi² (10,254 km²) in Great Divide Basin in southern Wyoming, is probably noncontributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1950 to current year.

REVISED RECORDS.--WDR UT-76-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 5,594.48 ft (1,705.20 m), National Geodetic Vertical Datum of 1929. Prior to Sept. 2, 1959, water-stage recorder at site 2.2 mi (3.5 km) upstream at different datum.

REMARKS.--Records excellent. Flow completely regulated by Flaming Gorge Reservoir 0.5 mi (0.8 km) upstream beginning Nov. 1, 1962 (see sta 09234400).

AVERAGE DISCHARGE.--28 years, 2,070 ft³/s (58.6 m³/s), 1,500,000 acre-ft/yr (1.85 km³/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 19,600 ft³/s (555 m³/s) June 12, 1957, gage height, 10.60 ft (3.231 m), site and datum then in use; minimum, 2.3 ft³/s (0.065 m³/s) Mar. 20, 22, 27, 28, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,680 ft³/s (133 m³/s) June 5; gage height, 6.47 ft (1.972 m); minimum daily, 821 ft³/s (23.3 m³/s) May 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1180	1110	1270	937	1600	2510	974	962	1440	2510	1830	2150
2	949	1190	1120	1080	1910	2330	953	960	944	2570	975	1380
3	1150	1200	1000	1210	1290	2510	1600	959	946	2730	1460	1250
4	1200	992	936	1380	948	2250	1720	961	944	2300	908	1980
5	1200	951	948	1560	930	1270	1570	1290	2160	2770	1080	2510
6	1260	1110	935	1210	1410	1840	957	946	2100	2340	1260	2200
7	1270	968	1070	1230	969	1460	1020	944	1260	2010	1380	2270
8	1210	1160	1180	1020	929	1500	953	944	932	1800	2060	1650
9	953	1150	935	1070	981	1650	1790	1320	931	1120	2450	1190
10	1320	1030	935	1700	936	2390	1960	1430	1120	2720	2380	1490
11	1220	1070	989	984	929	1360	1260	941	930	2580	2230	1530
12	1220	947	1120	930	929	1110	948	1490	1160	1250	1210	1100
13	1230	945	1060	927	940	1050	1650	956	2580	2010	1260	953
14	1130	1290	1180	920	944	932	1250	956	1690	2380	1520	1210
15	958	941	938	936	947	925	941	873	2030	1690	1560	1240
16	959	992	961	937	947	972	942	825	1570	1650	1690	1150
17	959	1160	969	1030	947	943	1130	821	1120	2540	2210	1130
18	959	1050	936	1160	965	947	1150	888	1380	2300	1240	1110
19	1240	944	1040	1440	945	947	1430	962	2070	2580	1710	1640
20	1200	1050	1100	1300	958	1730	1480	973	1490	2150	1290	1930
21	1250	1320	1170	1100	946	1250	1210	952	2190	2360	2360	1960
22	1240	1150	1170	936	945	2060	1010	948	2050	1620	3140	1810
23	955	1310	936	1760	1030	2600	943	941	2650	903	1760	1170
24	959	1160	934	1380	1270	2260	1670	1490	1360	1500	2370	996
25	1240	935	935	1160	1510	1070	1830	1660	1190	2020	2040	1290
26	1210	935	935	1260	2840	1060	1130	1670	2470	2270	1160	1710
27	1220	1130	977	1140	2550	1680	954	935	1420	2250	1170	1790
28	1220	934	989	1360	3000	1790	955	935	2550	1660	1200	1610
29	1200	975	1150	1390	---	2360	954	932	2470	1430	2080	1790
30	1160	1140	1410	1940	---	2080	956	934	2320	920	1710	1080
31	1190	---	938	1720	---	1180	---	1540	---	2010	2400	---
TOTAL	35611	32239	32166	38107	35445	50016	37290	33338	49467	62943	53093	46269
MEAN	1149	1075	1038	1229	1266	1613	1243	1075	1649	2030	1713	1542
MAX	1320	1320	1410	1940	3000	2600	1960	1670	2650	2770	3140	2510
MIN	949	934	934	920	929	925	941	821	930	903	908	953
AC-FT	70630	63950	63800	75590	70310	99210	73960	66130	98120	124800	105300	91770

CAL YR 1977 TOTAL 823056 MEAN 2255 MAX 4640 MIN 934 AC-FT 1633000
WTR YR 1978 TOTAL 505984 MEAN 1386 MAX 3140 MIN 821 AC-FT 1004000

09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1956 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1956 to September 1959, October 1963 to current year.
WATER TEMPERATURES: October 1956 to September 1959, October 1963 to current year.
SUSPENDED SEDIMENT DISCHARGE: October 1956 to September 1959.

REMARKS.--Storage in Flaming Gorge Reservoir began on Nov. 1, 1962. Extremes are given for two separate periods--water years 1957-62, and water years 1964 to current year. Extremes for the 1963 water year (October 1962 to September 1963) are not included. Unpublished daily records of specific conductance obtained before 1965 were included in the determination of extremes for period of daily record and are available in the files of Utah district office.

EXTREMES FOR PERIOD OF DAILY RECORD (water years 1957-62).--
SPECIFIC CONDUCTANCE (water years 1957-58, 1960-62): Maximum daily, 1,340 micromhos Aug. 30, 1961; minimum daily, 325 micromhos June 2, 1961.
WATER TEMPERATURES (water years 1957-59): Maximum, 24.0°C July 24, 25, 1959; minimum, 0.0°C on many days during winter period each year.
Water years 1964 to current year:
SPECIFIC CONDUCTANCE: Maximum daily, 1,060 micromhos Nov. 9, 1971; minimum daily, 560 micromhos Mar. 1, 1977.
WATER TEMPERATURES: Maximum, 14.0°C Nov. 11, 1963, July 17, Aug. 21, 28, 1978; minimum, 2.0°C on several days in 1964.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum daily, 910 micromhos May 11; minimum daily, 720 micromhos Dec. 9, 14, 19.
WATER TEMPERATURES: Maximum, 14.0°C July 17, Aug. 21, 28; minimum, 4.0°C on several days during February, May and June.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)
OCT										
07...	1900	1410	760	7.9	7.0	7.6	<1	61	300	140
NOV										
29...	1400	934	760	8.1	7.5	8.7	<1	<1	290	120
JAN										
11...	1500	946	820	7.7	5.0	4.3	<1	72	300	130
FEB										
01...	1500	1040	810	8.1	4.0	8.5	<1	K5	300	130
MAR										
10...	1600	947	840	8.3	4.5	10.7	<0	--	320	160
MAY										
04...	1400	963	830	8.2	4.5	10.2	<1	K15	310	140
JUL										
11...	0930	930	770	8.2	12.5	8.0	<1	K2	280	120
AUG										
17...	1000	957	810	8.1	13.0	7.7	<0	5	280	140

K Results based on colony count outside the acceptable range (non-ideal colony count).

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
OCT									
07...	73	28	57	1.4	2.5	200	0	240	16
NOV									
29...	69	29	59	1.5	2.6	210	0	230	18
JAN									
11...	72	30	63	1.6	2.9	210	0	230	20
FEB									
01...	76	31	65	1.6	2.7	210	0	250	21
MAR									
10...	72	33	70	1.7	2.7	200	0	260	25
MAY									
04...	76	34	75	1.8	2.9	215	0	270	21
JUL									
11...	66	26	63	1.6	2.5	200	0	240	18
AUG									
17...	68	27	62	1.6	2.7	--	--	250	20

09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)
OCT									
07...	.4	14	505	530	.69	1920	.80	--	--
NOV									
29...	.2	3.9	500	515	.68	1260	.64	--	--
JAN									
11...	.3	9.2	531	531	.72	1360	.46	--	--
FEB									
01...	.3	5.2	545	549	.74	2710	.73	.19	.92
MAR									
18...	.3	3.8	541	565	.74	1380	.77	.81	1.6
MAY									
04...	.3	4.0	588	583	.80	1530	.84	.50	1.3
JUL									
11...	.3	2.4	507	519	.69	1270	.56	.50	1.1
AUG									
17...	.2	2.0	540	516	.73	1400	.60	.42	1.0

DATE	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M	CHLOR-A PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	CHLOR-B PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	SEDI-MENT, SUS-PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT									
07...	.00	.00	--	1.42	1.18	.825	.355	8	54
NOV									
29...	.01	.00	3.6	--	--	--	--	2	62
JAN									
11...	.07	.06	3.9	--	--	--	--	8	34
FEB									
01...	--	.04	--	.236	.000	.150	.000	1	60
MAR									
18...	--	.03	5.0	--	--	--	--	8	26
MAY									
04...	.02	.01	--	11.2	7.72	18.1	2.55	2	--
JUL									
11...	.00	.00	--	2.05	1.73	2.82	.310	6	53
AUG									
17...	.01	.00	4.1	--	--	--	--	--	--

DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)
OCT												
07...	1900	2	2	10	4	0	0	50	0	10	0	20
FEB												
01...	1500	3	2	3	1	0	0	1	1	8	2	--
MAY												
04...	1400	3	1	1	0	0	0	2	0	9	0	40
JUL												
11...	0930	--	2	1	2	0	0	2	2	5	2	50

DATE	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT											
07...	20	100	5	10	0	.0	.0	2	0	10	10
FEB											
01...	10	46	1	10	0	.0	.0	3	3	20	20
MAY											
04...	20	33	2	10	10	.0	.0	1	1	10	20
JUL											
11...	20	15	10	10	10	--	.0	--	1	10	10

09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	750	730	---	810	810	---	900	880	---	770	800
2	---	750	740	---	820	810	---	900	890	---	790	---
3	750	750	---	780	820	820	860	870	---	760	790	---
4	740	750	---	780	---	---	860	890	---	---	790	---
5	750	---	740	780	---	---	840	880	880	760	---	800
6	740	---	730	780	820	---	870	---	880	760	---	800
7	750	750	730	---	820	810	880	---	890	760	790	810
8	---	740	730	---	810	820	---	860	880	---	800	810
9	---	750	720	780	840	---	---	870	880	---	800	---
10	---	750	---	790	840	---	850	880	---	760	800	---
11	740	---	---	780	840	---	850	910	---	760	---	800
12	750	---	730	790	---	---	860	880	880	770	---	800
13	740	---	730	760	---	840	860	---	850	770	---	800
14	740	760	720	---	840	780	860	---	---	770	800	790
15	---	750	730	---	840	800	---	900	850	---	800	790
16	---	750	730	800	850	800	---	880	860	---	800	---
17	750	740	---	800	850	840	850	900	---	760	800	---
18	750	730	---	800	---	---	840	890	---	770	800	790
19	740	---	720	800	---	---	860	900	880	770	---	790
20	740	---	740	800	---	850	870	---	---	770	---	790
21	750	750	730	---	800	820	860	---	760	770	800	790
22	---	760	740	---	840	820	---	890	760	---	810	790
23	---	740	740	810	850	830	---	890	760	---	810	---
24	---	---	---	800	840	810	870	890	---	780	810	---
25	740	750	---	---	---	---	---	890	---	780	810	790
26	750	---	---	780	---	---	900	---	---	780	---	790
27	750	---	740	820	830	850	900	---	760	780	---	790
28	750	740	750	---	830	850	900	---	760	790	800	790
29	---	740	750	---	---	840	---	---	770	---	810	790
30	750	740	750	790	---	830	---	870	850	---	800	---
31	---	---	---	810	---	850	---	870	---	780	820	---
MEAN	746	747	734	792	831	824	865	886	838	770	800	795

WTR YR 1978 MEAN 802

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	8.0	8.5	---	5.5	4.5	---	4.5	4.0	---	13.0	13.5
2	---	8.0	8.5	---	5.5	4.5	---	4.5	4.5	---	13.0	---
3	8.0	8.0	---	6.5	5.5	4.5	4.5	4.5	---	13.0	13.0	---
4	8.0	8.0	---	6.5	---	---	4.5	4.5	---	---	13.0	---
5	8.0	---	8.0	6.5	---	---	4.5	4.5	4.5	13.0	---	13.5
6	8.0	---	8.0	6.5	5.5	---	4.5	---	5.0	13.0	---	13.5
7	8.0	8.0	8.0	---	5.0	4.5	4.5	---	4.5	13.0	13.5	13.0
8	---	8.0	8.0	---	5.0	4.5	---	4.5	4.5	---	13.0	13.0
9	---	8.0	8.0	6.5	4.5	---	---	4.5	4.5	---	13.5	---
10	---	8.0	---	6.5	4.5	---	4.5	4.5	---	13.0	13.0	---
11	8.0	---	---	6.5	4.5	---	4.5	4.5	---	13.5	---	13.5
12	8.0	---	8.0	6.5	---	---	4.5	4.5	4.5	13.5	---	13.5
13	8.0	---	7.5	6.5	---	4.5	4.5	---	4.5	13.5	---	13.5
14	8.0	8.0	7.5	---	4.5	4.5	4.5	---	---	13.5	13.5	13.5
15	---	8.0	7.5	---	4.5	4.5	---	4.5	5.0	---	13.0	13.5
16	---	8.0	7.5	6.5	4.5	4.5	---	4.5	5.0	---	13.5	---
17	8.0	8.0	---	6.0	4.5	4.5	4.5	4.0	---	14.0	13.5	---
18	8.0	8.0	---	6.0	---	---	4.5	4.0	---	13.0	13.0	13.5
19	8.0	---	7.5	6.0	---	---	4.5	4.0	5.0	13.5	---	13.5
20	8.0	---	7.5	5.5	---	4.5	4.5	---	---	13.5	---	13.5
21	8.0	8.5	7.0	---	4.5	4.5	4.5	---	---	13.5	14.0	13.5
22	---	8.5	7.0	---	4.5	4.5	---	4.0	13.0	---	13.5	13.5
23	---	8.5	7.0	5.5	4.5	4.5	---	4.0	13.0	---	13.0	---
24	---	---	---	5.5	4.5	4.5	4.5	4.0	---	13.0	13.0	---
25	8.0	8.5	---	---	---	---	---	4.0	---	13.5	13.5	13.5
26	8.0	---	---	5.5	---	---	4.5	---	---	13.5	---	13.5
27	8.0	---	6.5	5.5	4.5	4.5	4.5	---	12.0	13.5	---	13.5
28	8.0	8.5	6.5	---	4.5	4.5	4.5	---	13.0	13.0	14.0	13.0
29	---	8.5	6.5	---	---	4.5	---	---	13.0	---	13.5	13.5
30	8.0	8.5	6.5	5.5	---	4.5	---	4.0	12.0	---	13.5	---
31	---	---	---	5.5	---	4.5	---	4.5	---	13.5	13.5	---
MEAN	8.0	8.0	7.5	6.0	5.0	4.5	4.5	4.5	7.5	13.5	13.5	13.5

WTR YR 1978 MEAN 8.0

09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO AUGUST 1978

DATE	NOV 29,77	MAR 18,78	JUN 16,78	AUG 17,78
TIME	1400	1600	1830	1000
TOTAL CELLS/ML	80	3900	29	670
DIVERSITY: DIVISION	1.3	0.7	1.0	0.5
.CLASS	1.3	0.7	1.0	0.5
..ORDER	1.3	0.7	1.0	1.8
...FAMILY	2.3	0.8	1.0	1.8
....GENUS	2.8	0.8	1.0	1.8

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
.CHLOROPHYCEAE								
..CHLOROCOCCALES								
...OOCYSTACEAE								
....OOCYSTIS	--	-	--	-	--	-	110#	16
....TETRAEDRON	--	-	--	-	15#	50	--	-
..TETRASPORALES								
...PALMELLACEAE								
....SPHAEROCYSTIS	--	-	--	-	--	-	260#	39
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	--	-	--	-	--	-	240#	35
CHRYSOPHYTA								
.BACILLARIOPHYCEAE								
..CENTRALES								
...COSCINODISCACEAE								
....CYCLOTELLA	--	-	*	0	--	-	--	-
..PENNALES								
...ACHNANTHACEAE								
....ACHNANTHES	6	8	--	-	--	-	--	-
....COCCONEIS	12#	15	--	-	--	-	--	-
....RHOICOSPHENIA	6	8	--	-	--	-	--	-
...DIATOMACEAE								
....DIATOMA	12#	15	*	0	--	-	--	-
...FRAGILARIACEAE								
....FRAGILARIA	--	-	3200#	83	--	-	--	-
...NAVICULACEAE								
....NAVICULA	6	8	--	-	--	-	--	-
...NITZSCHIACEAE								
....NITZSCHIA	--	-	25	1	--	-	--	-
.CHRYSOPHYCEAE								
..CHRYSOMONADALES								
...MALLOMONADACEAE								
....MALLOMONAS	--	-	--	-	15#	50	--	-
...OCHROMONADACEAE								
....OCHROMONAS	--	-	--	-	--	-	65	10
CRYPTOPHYTA (CRYPTOMONADS)								
.CRYPTOPHYCEAE								
..CRYPTOMONIDALES								
...CRYPTOCHRYSIDACEAE								
....CHROOMONAS	25#	31	--	-	--	-	--	-
...CRYPTOMONODACEAE								
....CRYPTOMONAS	6	8	*	0	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)								
.CYANOPHYCEAE								
..CHROCCOCCALES								
...CHROCCOCCAEAE								
....ANACYSTIS	--	-	620#	16	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)								
.EUGLENOPHYCEAE								
..EUGLENALES								
...EUGLENACEAE								
....TRACHELOMONAS	6	8	--	-	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)								
.DINOPHYCEAE								
..PERIDINIALES								
...GLENODINIACEAE								
....GLENODINIUM	--	-	*	0	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

09235300 VERMILLION CREEK NEAR HIAWATHA, CO

LOCATION.--Lat 41°00'54", long 108°38'39", in NE¼SE¼NE¼ sec.15, T.12 N., R.100 W., Sweetwater County, WY, Hydrologic Unit 14040109, on right bank 0.7 mi (1.1 km) upstream from county road, 0.9 mi (1.4 km) downstream from Alkali Creek, 1.8 mi (2.9 km) upstream from Horseshoe Wash, 1.9 mi (3.1 km) upstream from the Wyoming-Colorado State line, 2.3 mi (3.7 km) northwest of Hiawatha, CO, and 49 mi (79 km) southwest of Rock Springs, WY.

DRAINAGE AREA.--196 mi² (508 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1975 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,610 ft (2,015 m), from topographic map.

REMARKS.--Records poor. No diversion above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,160 ft³/s (32.9 m³/s) Sept. 7, 1978, gage height, 7.71 ft (2.350 m), from rating curve extended above 16 ft³/s (0.45 m³/s) on basis of slope-area measurements at gage heights of 3.03 ft (0.924 m), 6.52 ft (1.987 m), and 7.71 ft (2.350 m); no flow for many days during 1977 and 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,160 ft³/s (32.9 m³/s) Sept. 7, gage height, 7.71 ft (2.350 m); no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.30	.42	.74	.40	.62	1.0	1.9	1.9	5.5	.64	.08	.21
2	.30	.59	.85	.30	.64	.96	1.8	1.7	5.0	.42	.00	.18
3	.30	.69	1.1	.20	.66	.90	1.7	1.6	5.5	.26	.00	.00
4	.22	.79	1.1	.20	.69	.90	1.5	1.5	7.1	.13	.00	.00
5	.34	.74	1.0	.30	.72	.95	1.5	2.4	5.5	.13	.00	.00
6	.42	.74	.96	.50	.70	1.2	1.4	2.1	6.2	.15	.00	.00
7	.42	.79	.90	.80	.74	1.3	1.3	3.2	5.0	.20	.00	120
8	.42	.42	.90	.93	.78	1.7	1.3	2.8	5.0	.14	.00	45
9	.38	.30	.85	1.0	.78	2.1	1.3	2.1	4.8	.02	.00	.96
10	.34	.28	.74	1.1	.74	2.6	1.3	2.0	4.5	.00	.00	.64
11	.23	.26	.80	1.1	.78	2.5	1.3	2.4	6.6	.00	.00	.54
12	.26	.26	.85	1.0	.80	2.2	1.1	2.3	5.0	.00	.05	.54
13	.42	.29	.90	.95	.78	1.9	1.3	2.0	2.6	.00	1.5	.50
14	.50	.32	1.0	.90	.76	1.7	1.4	1.9	1.9	.00	7.4	.46
15	.50	.35	1.1	.86	.74	1.6	1.4	2.0	1.6	.00	2.1	.42
16	.46	.41	1.0	.83	.72	1.6	1.4	2.0	1.3	.00	1.6	.38
17	.42	.37	.95	.80	.70	1.9	1.3	3.0	1.4	.00	1.1	12
18	.46	.33	.85	.78	.69	6.0	1.2	4.5	1.4	.00	2.0	3.7
19	.46	.28	.74	.74	.64	40	1.6	3.5	1.2	.00	1.5	.30
20	.46	.24	.60	.74	.69	16	1.6	3.2	1.2	.00	1.4	.23
21	.50	.21	.20	.69	.79	23	1.5	3.5	1.1	.00	1.2	.23
22	.54	.21	.06	.69	.85	16	1.2	4.2	1.0	.00	.96	.23
23	.54	.27	.01	.64	.85	6.6	1.7	4.2	.85	.00	.90	.23
24	.59	.40	.00	.59	.96	4.2	1.6	5.5	.79	.00	.69	.23
25	.59	.60	.00	.59	1.0	3.2	1.6	5.5	.69	.00	.74	.23
26	.59	.89	.00	.59	1.0	3.2	1.5	5.5	.69	.00	.24	.23
27	.59	1.1	.00	.54	1.1	3.0	1.9	5.8	.69	.00	.18	.20
28	.59	1.2	.00	.56	1.1	3.0	2.8	5.5	.64	.00	.00	.30
29	.59	1.2	.05	.56	---	2.4	2.0	6.2	.74	.00	.49	.34
30	.59	.96	.10	.58	---	2.3	1.9	8.3	.85	.00	.46	.34
31	.46	---	.50	.60	---	1.8	---	6.6	---	.00	.46	---
TOTAL	13.78	15.91	18.85	21.06	22.02	157.71	46.3	108.9	86.34	2.09	25.05	188.62
MEAN	.44	.53	.61	.68	.79	5.09	1.54	3.51	2.88	.067	.81	6.29
MAX	.59	1.2	1.1	1.1	1.1	40	2.8	8.3	7.1	.64	7.4	120
MIN	.22	.21	.00	.20	.62	.90	1.1	1.5	.64	.00	.00	.00
AC-FT	27	32	37	42	44	313	92	216	171	4.1	50	374

CAL YR 1977 TOTAL 793.80 MEAN 2.17 MAX 192 MIN .00 AC-FT 1570
WTR YR 1978 TOTAL 706.63 MEAN 1.94 MAX 120 MIN .00 AC-FT 1400

09235300 VERMILLION CREEK NEAR HIAWATHA, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1976 to current year.

REMARKS.--No flow was observed September 3, 1978.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS. NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
OCT												
03...	1430	.28	2600	--	16.5	2	--	--	--	--	--	--
16...	1000	.38	1850	7.9	2.0	1	10.6	2.3	750	440	160	84
31...	1325	.47	1500	--	3.0	2	--	--	--	--	--	--
NOV												
27...	1145	A1.1	1650	8.1	.5	120	11.6	3.2	630	240	130	74
29...	1430	.96	1700	--	.0	55	--	--	--	--	--	--
DEC												
18...	1200	.85	1950	8.1	.0	20	10.8	2.3	680	290	140	80
JAN												
19...	1200	A.74	2000	8.1	.0	3	10.6	6.4	670	250	130	84
27...	1500	.54	2600	--	1.0	6	--	--	--	--	--	--
FEB												
16...	1200	A.72	1550	8.3	.0	60	10.8	--	660	240	130	82
MAR												
07...	1410	1.3	1200	--	5.0	370	--	--	--	--	--	--
14...	1215	A1.7	1500	8.3	.0	700	10.5	2.2	510	170	100	64
16...	1315	1.5	1500	--	1.0	400	--	--	--	--	--	--
21...	1515	16	890	--	8.5	5600	--	--	--	--	--	--
31...	1400	1.8	1300	--	17.0	1200	--	--	--	--	--	--
APR												
29...	1115	1.9	1800	8.5	14.0	750	8.3	2.8	580	220	100	81
MAY												
08...	1345	3.2	1400	--	13.0	1600	--	--	--	--	--	--
23...	1230	4.1	1300	8.3	16.0	1200	8.6	3.1	460	130	83	62
23...	1305	4.1	1400	--	17.0	1200	--	--	--	--	--	--
JUN												
14...	1400	1.9	1400	--	19.5	380	--	--	--	--	--	--
17...	1210	1.4	1500	8.4	21.0	340	7.2	3.7	510	150	86	71
AUG												
01...	0930	.23	1750	8.4	18.5	60	7.6	4.8	480	160	84	66
01...	1400	.16	1700	--	26.5	40	--	--	--	--	--	--
15...	1130	2.0	1100	--	15.0	2700	--	--	--	--	--	--
SEP												
28...	1100	.26	2400	8.1	11.0	1	10.0	1.9	910	670	230	82

A-Daily mean discharge.

09235300 VERMILLION CREEK NEAR HIAWATHA, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 105 DEG. C, DIS-SOLVED (MG/L)
OCT											
03...	--	--	--	--	--	--	--	--	--	--	--
16...	240	3.8	4.9	370	0	300	890	33	.4	8.7	--
31...	--	--	--	--	--	--	--	--	--	--	--
NOV											
27...	250	4.3	5.0	470	0	390	670	33	.4	10	1500
29...	--	--	--	--	--	--	--	--	--	--	--
DEC											
18...	250	4.2	4.9	480	0	390	770	34	.4	11	--
JAN											
19...	230	3.9	4.4	510	0	420	680	32	.4	12	--
27...	--	--	--	--	--	--	--	--	--	--	--
FEB											
16...	260	4.4	4.1	520	0	430	680	37	.3	12	--
MAR											
07...	--	--	--	--	--	--	--	--	--	--	--
14...	180	3.5	4.3	420	0	340	510	25	.4	8.9	--
16...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--
APR											
29...	200	3.6	4.7	430	5	360	630	29	.2	12	--
MAY											
08...	--	--	--	--	--	--	--	--	--	--	--
23...	150	3.0	5.1	410	0	340	400	15	.2	14	--
23...	--	--	--	--	--	--	--	--	--	--	--
JUN											
14...	--	--	--	--	--	--	--	--	--	--	--
17...	190	3.7	5.7	430	1	350	520	26	.3	14	--
AUG											
01...	240	4.8	6.1	390	0	320	590	37	.5	9.9	--
01...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
SEP											
28...	250	3.6	5.8	290	0	240	1200	32	.4	9.2	--

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS NO3)	PHOS-PHORUS, TOTAL (MG/L AS P)
OCT											
03...	--	--	--	--	--	--	--	--	--	--	--
16...	1600	2.18	1.64	--	.01	.00	.41	.41	.42	1.9	.00
31...	--	--	--	--	--	--	--	--	--	--	--
NOV											
27...	1400	1.90	4.16	220	.45	.10	1.2	1.3	1.8	7.7	.13
29...	--	--	--	--	--	--	--	--	--	--	--
DEC											
18...	1530	2.08	3.51	--	1.0	.15	.52	.67	1.7	7.4	.04
JAN											
19...	1420	1.93	2.84	--	.48	.06	.43	.49	.97	4.3	.03
27...	--	--	--	--	--	--	--	--	--	--	--
FEB											
16...	1460	1.99	2.84	--	.50	.02	.53	.55	1.1	4.6	.08
MAR											
07...	--	--	--	--	--	--	--	--	--	--	--
14...	1100	1.50	5.05	--	.29	.08	1.9	2.0	2.3	10	.92
16...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--
APR											
29...	1280	1.74	6.22	--	.30	.10	2.3	2.4	2.7	12	.79
MAY											
08...	--	--	--	--	--	--	--	--	--	--	--
23...	932	1.27	10.3	--	.64	.03	4.9	4.9	5.5	25	1.6
23...	--	--	--	--	--	--	--	--	--	--	--
JUN											
14...	--	--	--	--	--	--	--	--	--	--	--
17...	1130	1.54	4.27	--	.05	.05	1.7	1.7	1.8	7.7	.03
AUG											
01...	1230	1.67	.76	--	.04	.01	1.4	1.4	1.4	6.4	.10
01...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
SEP											
28...	1950	2.65	1.37	--	.02	.01	.53	.54	.56	2.5	.07

09235300 VERMILLION CREEK NEAR HIAWATHA, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)
OCT											
16...	1000	100	--	1	--	10	--	180	<10	--	20
NOV											
27...	1145	--	--	--	--	--	--	170	--	--	--
DEC											
18...	1200	--	--	--	--	--	--	190	--	--	--
JAN											
19...	1200	100	10	1	1	0	0	160	4	4	10
FEB											
16...	1200	--	--	--	--	--	--	160	--	--	--
MAR											
14...	1215	--	--	--	--	--	--	140	--	--	--
APR											
29...	1115	20000	--	10	--	0	--	170	1	--	20
MAY											
23...	1230	--	--	--	--	--	--	180	--	--	--
JUN											
17...	1210	--	--	--	--	--	--	200	--	--	--
AUG											
01...	0930	950	--	3	--	0	--	250	10	--	10
SEP											
28...	1100	--	--	--	--	--	--	190	--	--	--

DATE	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)
OCT											
16...	--	<10	--	450	70	<100	--	60	--	200	--
NOV											
27...	--	--	--	--	50	--	--	--	--	--	--
DEC											
18...	--	--	--	--	80	--	--	--	--	--	--
JAN											
19...	10	6	3	440	80	9	2	80	80	150	140
FEB											
16...	--	--	--	--	80	--	--	--	--	--	--
MAR											
14...	--	--	--	--	90	--	--	--	--	--	--
APR											
29...	--	31	--	43000	4200	23	--	100	--	1000	--
MAY											
23...	--	--	--	--	140	--	--	--	--	--	--
JUN											
17...	--	--	--	--	120	--	--	--	--	--	--
AUG											
01...	--	20	--	2100	250	43	--	80	--	110	--
SEP											
28...	--	--	--	--	200	--	--	--	--	--	--

09235300 VERMILLION CREEK NEAR HIAWATHA, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT											
16...	.0	--	4	--	<50	--	0	--	--	10	--
NOV											
27...	--	--	--	--	--	--	--	--	--	--	--
DEC											
18...	--	--	--	--	--	--	--	--	--	--	--
JAN											
19...	.0	.0	5	4	7	3	1	0	.0	30	10
FEB											
16...	--	--	--	--	--	--	--	--	--	--	--
MAR											
14...	--	--	--	--	--	--	--	--	--	--	--
APR											
29...	.0	--	10	--	18	--	2	--	--	100	--
MAY											
23...	--	--	--	--	--	--	--	--	--	--	--
JUN											
17...	--	--	--	--	--	--	--	--	--	--	--
AUG											
01...	.0	--	7	--	18	--	1	--	--	40	--
SEP											
28...	--	--	--	--	--	--	--	--	--	--	--

DATE	TIME	GROSS ALPHA, DIS-SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/ YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS-SOLVED (UG/L AS U)
NOV									
27...	1145	<17	13	13	11	11	11	.14	12

DATE	TIME	TEMPER-ATURE (DEG C)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM
OCT										
03...	1430	16.5	.28	9	.01	--	--	--	--	--
31...	1325	3.0	.47	12	.02	--	--	--	--	--
NOV										
29...	1430	.0	.96	149	.39	--	--	--	--	--
JAN										
27...	1500	1.0	.54	51	.07	--	--	--	--	--
MAR										
07...	1410	5.0	1.3	796	2.8	--	--	--	--	--
16...	1315	1.0	1.5	1090	4.4	--	--	--	--	--
21...	1515	8.5	16	13200	570	59	92	99	99	100
31...	1400	17.0	1.8	2480	12	73	100	--	--	--
MAY										
08...	1345	13.0	3.2	4580	40	--	--	--	--	--
23...	1305	17.0	4.1	3160	35	50	73	93	98	100
JUN										
14...	1400	19.5	1.9	898	4.6	--	--	--	--	--
AUG										
01...	1400	26.5	.16	108	.05	--	--	--	--	--
15...	1130	15.0	2.0	4160	22	90	95	95	97	100

DATE	TIME	TEMPER-ATURE (DEG C)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	NUMBER OF SAM-PLING POINTS	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM
MAY							
23...	1305	17.0	4.1	19	4	5	15

DATE	BED MAT. FALL DIAM. % FINER THAN .500 MM	BED MAT. FALL DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM
MAY						
23...	46	50	64	78	94	100

09253000 LITTLE SNAKE RIVER NEAR SLATER, CO

LOCATION.--Lat 40°59'58", long 107°08'34", in SW¼NW¼ sec.15, T.12 N., R.87 W., Routt County, Hydrologic Unit 14050003, on left bank just downstream from highway bridge at Focus Ranch, 0.2 mi (0.3 km) downstream from Spring Creek, and 12 mi (19 km) east of Slater.

DRAINAGE AREA.--285 mi² (738 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1942 to September 1947, October 1950 to current year.

REVISED RECORDS.--WSP 1733: 1960.

GAGE.--Water-stage recorder. Datum of gage is 6,831.00 ft (2,082.089 m), National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for winter period, which are fair. Diversions for irrigation of about 2,000 acres (8.09 km²) above station.

AVERAGE DISCHARGE.--33 years, 226 ft³/s (6.400 m³/s), 163,700 acre-ft/yr (202 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,180 ft³/s (118 m³/s) Apr. 25, 1974, gage height, 8.95 ft (2.728 m), from recorded range in stage; minimum daily, 8.6 ft³/s (0.24 m³/s) Sept. 10, 1944.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,600 ft³/s (45 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
May 16	2100	2,340	66.3	7.42	2.262	June 11	2130	*2,490	70.5	7.57	2.307
May 24	2300	2,380	67.4	7.46	2.274						

Minimum daily discharge, 18 ft³/s (0.51 m³/s) Sept. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	30	40	33	29	34	171	674	1620	855	80	21
2	23	30	39	33	30	34	177	764	1630	771	85	21
3	22	31	38	33	31	34	157	904	1660	708	74	19
4	22	32	38	31	32	34	133	771	1840	632	66	19
5	21	35	37	30	33	34	131	578	1740	566	61	19
6	24	37	37	30	34	35	122	485	1650	515	57	19
7	60	33	36	30	34	36	148	430	1730	465	56	18
8	42	30	36	30	35	36	208	380	1760	435	51	25
9	30	24	36	30	36	37	258	355	1950	400	44	24
10	28	22	35	30	36	37	217	455	2380	375	36	21
11	22	25	35	30	36	37	204	545	2400	375	34	26
12	22	30	34	30	36	38	244	578	2180	366	33	41
13	26	30	34	30	36	39	237	736	2110	284	38	34
14	28	29	34	30	36	40	251	1140	2180	249	60	30
15	26	28	33	30	36	41	288	1550	2150	228	81	27
16	24	28	33	31	36	42	301	1900	2130	213	54	25
17	25	27	33	31	36	43	301	1810	1920	209	37	25
18	23	28	32	31	36	44	240	1300	1690	198	35	40
19	23	62	31	32	36	45	234	1120	1620	169	43	40
20	24	60	31	33	35	46	301	1190	1480	157	37	38
21	25	56	31	33	35	48	355	1360	1410	140	33	35
22	28	52	30	33	35	49	265	1630	1410	128	31	39
23	27	49	30	34	35	50	227	1860	1420	112	30	38
24	25	46	30	34	35	52	251	2020	1410	101	28	33
25	26	45	30	35	35	55	400	1930	1430	93	26	30
26	25	43	30	34	35	58	578	1760	1250	92	27	27
27	26	43	30	32	35	68	668	1690	1090	91	26	26
28	25	42	32	30	35	78	584	1550	1020	85	24	25
29	25	41	33	30	---	84	578	1640	967	90	23	23
30	34	40	33	29	---	101	662	1850	932	101	23	23
31	37	---	33	29	---	125	---	1580	---	87	22	---
TOTAL	841	1108	1044	971	969	1534	8891	36635	50159	9290	1355	631
MEAN	27.1	36.9	33.7	31.3	34.6	49.5	296	1182	1672	300	43.7	27.7
MAX	60	62	40	35	36	125	668	2020	2400	855	85	41
MIN	21	22	30	29	29	34	122	355	932	85	22	18
AC-FT	1670	2200	2070	1930	1920	3040	17640	72670	99490	18430	2690	1650

CAL YR 1977 TOTAL 32346.0 MEAN 88.6 MAX 643 MIN 9.0 AC-FT 64160
WTR YR 1978 TOTAL 113628.0 MEAN 311 MAX 2400 MIN 18 AC-FT 225400

09253000 LITTLE SNAKE RIVER NEAR SLATER, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1977 to September 1978.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
OCT											
03...	--	22	180	--	12.0	--	--	--	--	--	--
14...	1230	19	180	8.1	6.0	1	9.9	65	0	19	4.3
NOV											
02...	--	26	190	--	4.5	--	--	--	--	--	--
DEC											
13...	--	33	180	--	1.0	--	--	--	--	--	--
FEB											
10...	--	37	180	--	1.0	--	--	--	--	--	--
JUN											
09...	1230	1950	--	--	--	--	--	19	4	5.6	1.3
JUL											
20...	1330	157	--	--	18.0	--	--	27	0	8.3	1.5
AUG											
22...	1530	25	--	--	17.5	--	--	50	0	16	2.8
SEP											
28...	1330	20	--	--	13.0	--	--	62	0	18	4.1

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 105 DEG. C, DIS-SOLVED (MG/L)
OCT											
03...	--	--	--	--	--	--	--	--	--	--	--
14...	10	.5	1.5	83	0	68	10	3.5	.2	16	110
NOV											
02...	--	--	--	--	--	--	--	--	--	--	--
DEC											
13...	--	--	--	--	--	--	--	--	--	--	--
FEB											
10...	--	--	--	--	--	--	--	--	--	--	--
JUN											
09...	1.1	.1	.8	18	0	15	4.7	1.9	.1	9.5	--
JUL											
20...	2.2	.2	1.1	37	0	30	6.8	.7	.2	9.2	--
AUG											
22...	9.5	.6	1.0	52	12	63	6.7	3.3	.2	6.3	--
SEP											
28...	12	.7	1.4	85	0	70	12	2.9	.2	9.5	--

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)
OCT											
03...	--	--	--	--	--	--	--	--	--	--	--
14...	106	.14	5.44	<1	--	.01	.00	.00	.00	.13	.12
NOV											
02...	--	--	--	--	--	--	--	--	--	--	--
DEC											
13...	--	--	--	--	--	--	--	--	--	--	--
FEB											
10...	--	--	--	--	--	--	--	--	--	--	--
JUN											
09...	34	.05	179	--	.02	--	--	--	--	--	--
JUL											
20...	48	.07	20.3	--	.00	--	--	--	--	--	--
AUG											
22...	95	.13	6.41	--	.00	--	--	--	--	--	--
SEP											
28...	104	.14	5.62	--	.36	--	--	--	--	--	--

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	PHYTOPLANKTON, TOTAL (CELLS PER ML)	INVERTEBRATES, BENTHIC WET WT. (G/SQ METER)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)
OCT											
03...	--	--	--	--	--	--	--	--	--	--	--
14...	.13	.01	.12	.01	.01	.00	.00	510	14	11	.56
NOV											
02...	--	--	--	--	--	--	--	--	--	--	--
DEC											
13...	--	--	--	--	--	--	--	--	--	--	--
FEB											
10...	--	--	--	--	--	--	--	--	--	--	--
JUN											
09...	--	--	--	.00	--	--	--	--	--	--	--
JUL											
20...	--	--	--	.01	--	--	--	--	--	--	--
AUG											
22...	--	--	--	.02	--	--	--	--	--	--	--
SEP											
28...	--	--	--	.01	--	--	--	--	--	--	--

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BORON, DISSOLVED (UG/L AS B)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)
OCT								
14...	1230	10	9	0	40	2	10	0

DATE	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	ZINC, DISSOLVED (UG/L AS ZN)
OCT								
14...	110	11	4	.0	0	0	0	10

DATE	TIME	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DISSOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DISSOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RA-226, DISSOLVED, PLANCHET COUNT (PCI/L)	URANIUM DISSOLVED, EXTRACTION (UG/L)
OCT									
14...	1230	<1.2	<.4	2.6	<.4	2.3	<.4	<.1	.15

DATE	TIME	2,4-D, TOTAL (UG/L)	2,4-D, TOTAL IN BOTTOM MATERIAL (UG/KG)	2,4,5-T TOTAL (UG/L)	2,4,5-T TOTAL IN BOTTOM MATERIAL (UG/KG)	SILVEX, TOTAL (UG/L)	SILVEX, TOTAL IN BOTTOM MATERIAL (UG/KG)
JUN							
09...	1230	.00	0	.00	0	.00	.0
JUL							
20...	1330	.00	0	.00	0	.00	.0
AUG							
22...	1530	.00	0	.00	0	.00	.0
SEP							
28...	1330	.00	1	.00	0	.00	1.0

DATE	TOTAL DICAMBA (UG/L)	DICAMBA IN BOTTOM MATERIAL (UG/KG)	TOTAL PICLORAM (UG/L)	PICLORAM IN BOTTOM MATERIAL (UG/KG)
JUNE				
9...	.00	0	.00	0
JULY				
20...	.00	0	.00	0
AUG				
22...	.00	0	.00	0
SEP				
28...	.00	0	.00	0

09253000 LITTLE SNAKE RIVER NEAR SLATER, CO--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 14,77
TIME	1230
TOTAL CELLS/ML	510
DIVERSITY: DIVISION	1.3
.CLASS	1.5
..ORDER	1.8
...FAMILY	3.4
....GENUS	3.6

ORGANISM	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...OOCYSTACEAE		
....ANKISTRODESMUS	21	4
....CHLORELLA	4	1
....KIRCHNERIELLA	4	1
....OOCYSTIS	17	3
...SCENEDESMACEAE		
....SCENEDESMUS	21	4
..TETRASPORALES		
...PALMELLACEAE		
....GLOEOCYSTIS	4	1
..VOLVOCALES		
...CHLAMYDOMONADACEAE		
....CHLAMYDOMONAS	4	1
..ZYGNEMATALES		
...ZYGNEMATACEAE		
....MOUGEOTIA	8	2
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..CENTRALES		
...COSCINODISCACEAE		
....CYCLOTELLA	13	2
..PENNALES		
...ACHNANTHACEAE		
....ACHNANTHES	4	1
....COCCONEIS	4	1
...CYMBELLACEAE		
....EPITHEMIA	46	9
...FRAGILARIACEAE		
....SYNEDRA	88#	17
...NAVICULACEAE		
....NAVICULA	72	14
...NITZSCHIACEAE		
....NITZSCHIA	110#	21
.CHRYSOPHYCEAE		
..CHRYSOMONADALES		
...CHROMULINACEAE		
....CHRYSOCOCCUS	8	2
....KEPHYRION	4	1
CRYPTOPHYTA (CRYPTOMONADS)		
.CRYPTOPHYCEAE		
..CRYPTOMONADALES		
...CRYPTO,ONADACEAE		
....CRYPTOMONAS	8	2
CYANOPHYTA (BLUE-GREEN ALGAE)		
.CYANOPHYCEAE		
..CHROOCOCCALES		
...CHROOCOCCACEAE		
....COCCOCHLORIS	4	1
..HORMOGONALES		
...NOSTOCACEAE		
....ANABAENA	25	5
...OSCILLATORIACEAE		
....SCHIZOTHRIX	42	8

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

09253000 LITTLE SNAKE RIVER NEAR SLATER, CO--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

OCT. 14, 1977
1230 HOURS

PERIPHYTON IDENTIFICATION

	ORGANISM NAME	COMMON NAME
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..CHLOROCOCCALES	
	...SCENEDESMACEAE	
	....SCENEDESMUS	
	..ULOTRICHALES	
	...CHAETOPHORACEAE	
	....STIGEOCLONIUM	
	..ZYGNEMATALES	
	...DESMIDIACEAE	PLACODERM DESMIDS
	....CLOSTERIUM	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
	....COCCONEIS	
	...CYMBELLACEAE	
&	....EPITHEMIA	
	...FRAGILARIACEAE	
&	....SYNEDRA	
	...GOMPHONEMATACEAE	
	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
	....FRUSTULIA	
	....NAVICULA	
	...NITZSCHIACEAE	
	....NITZSCHIA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.CYANOPHYCEAE	
	..HORMOGONALES	FILAMENTOUS BL-GREEN
	...OSCILLATORIACEAE	
&	....LYNGBYA	
	...RIVULARIACEAE	
	....CALOTHRIX	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

09253000 LITTLE SNAKE RIVER NEAR SLATER, CO--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

BENTHIC INVERTEBRATE ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 14,77
TIME	1230
TOTAL COUNT	331
DIVERSITY: PHYLUM	0.0
.CLASS	0.0
..ORDER	2.1
...FAMILY	2.7
....GENUS	3.4
....GENUS-INSECTA	3.4

ORGANISM	COUNT
ARTHROPODA (ARTHROPODS)	
.INSECTA	
..COLEOPTERA	
...DRYOPIDAE	
....HELICHUS	1
...ELMIDAE	
....OPTIOSERVUS	12
....ZAITZEVIA	13
..DIPTERA	
...BLEPHAROCERIDAE	
....BIBIOCEPHALA	2
...CHIRONOMIDAE	
....CORYNONEURA	2
....EUKIEFFERIELLA	11
....MICROPSECTRA	2
....ORTHOCLADIUS	9
....RHEOTANYTARSUS	1
....SPANIOTOMA	
.....SPANIOTOMA SP. 6	2
...EMPIDIDAE	
....HEMERODROMIA	1
...RHAGIONIDAE	
....ATHERIX	
.....A.VARIEGATA	1
...TIPULIDAE	
....ANTOCHA	1
....HEXATOMA	2
..EPHEMEROPTERA	
...BAETIDAE	
....PSEUDOCLOEON	4
...EPHEMERELLIDAE	
....EPHEMERELLA	75
...HEPTAGENIIDAE	
....UNKNOWN GENUS	3
..PLECOPTERA	
...CHLOROPERLIDAE	
....UNKNOWN GENUS	39
...PTERONARCIDAE	
....PTERONARCELLA	9
....PTERONARCYS	2
..TRICHOPTERA	
...BRACHYCENTRIDAE	
....BRACHYCENTRUS	5
...GLOSSOSOMATIDAE	
....ANAGAPETUS	11
...HYDROPSYCHIDAE	
....ARCTOPSYCHE	2
....CHEUMATOPSYCHE	44
...HYDROPTILIDAE	
....LEUCOTRICHIA	1
...LEPTOCERIDAE	
....OECETIS	1
...HYDROPSYCHIDAE	
....HYDROPSYCHE	75

09255000 SLATER FORK NEAR SLATER, CO

LOCATION.--Lat 40°58'57", long 107°22'56", in SW¼NE¼ sec.21, T.12 N., R.89 W., Moffat County, Hydrologic Unit 14050003, on right bank 15 ft (5 m) downstream from highway bridge, 1.0 mi (1.6 km) upstream from mouth, and 1.5 mi (2.4 km) south of Slater.

DRAINAGE AREA.--161 mi² (417 km²).

PERIOD OF RECORD.--May to October, December 1910, March to October 1911, and April to May 1912 (published as Slater Creek), July 1931 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 618: 1910-11. WSP 764: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,600 ft (2,012 m), from river-profile map. May 28, 1910, to May 25, 1912, nonrecording gage at site 1.5 mi (2.4 km) upstream at different datum. July 9, 1931, to May 6, 1932, nonrecording gage at site 0.2 mi (0.3 km) downstream at different datum.

REMARKS.--Records good except those for winter period, which are fair. Diversions for irrigation of about 500 acres (2.02 km²) above station.

AVERAGE DISCHARGE.--47 years (water years 1932-78), 73.1 ft³/s (2.070 m³/s), 52,960 acre-ft/yr (65.3 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,860 ft³/s (52.7 m³/s) May 8, 1974, gage height, 10.75 ft (3.277 m), from peak indicator; no flow Aug. 2-10, 1934, Aug. 18, 25-27, 1936, Aug. 29 to Sept. 3, 1954, Aug. 3, 4, 15, 16, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 430 ft³/s (12 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
May 17	1100	698	19.8	8.68	2.646
May 24	0300	700	19.8	8.69	2.649
June 11	0400	*718	20.3	8.75	2.667

Minimum daily discharge, 3.8 ft³/s (0.11 m³/s) Sept. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	14	12	11	10	17	128	184	374	210	14	4.1
2	11	13	12	11	10	17	109	209	386	194	15	4.0
3	12	15	12	11	10	18	90	263	399	176	13	3.9
4	12	14	12	12	11	18	74	244	478	156	11	3.9
5	11	14	12	12	11	19	82	187	429	139	9.8	3.8
6	15	14	12	12	12	19	72	153	392	126	8.0	3.9
7	27	14	12	12	13	20	91	128	425	119	7.4	5.3
8	21	14	12	12	14	21	116	113	398	113	6.5	11
9	15	6.1	12	12	15	21	124	105	441	102	6.2	11
10	13	10	12	12	17	21	93	144	570	97	6.1	7.6
11	12	17	12	12	17	21	88	183	594	93	5.9	8.0
12	11	15	12	12	17	21	110	185	480	114	6.0	12
13	12	12	12	12	17	21	101	195	462	83	6.8	11
14	12	14	12	12	17	21	100	326	504	71	9.8	10
15	12	14	12	12	16	22	110	512	488	61	14	9.6
16	12	13	12	12	16	22	110	656	466	61	12	8.4
17	12	10	12	12	16	23	112	634	428	58	8.2	8.3
18	12	14	12	12	16	24	83	407	351	53	6.8	15
19	11	13	12	12	16	25	80	318	344	44	7.1	17
20	11	12	12	12	16	27	92	371	321	38	7.4	18
21	12	12	12	11	16	28	114	449	303	35	6.8	18
22	14	12	12	11	16	28	91	480	317	31	6.0	21
23	14	12	12	11	16	29	80	590	318	27	5.6	20
24	13	12	12	10	16	29	75	606	323	27	5.5	18
25	12	12	12	10	16	30	114	554	339	29	5.2	16
26	12	12	12	10	16	32	161	476	281	27	5.0	15
27	12	12	12	10	17	37	207	470	233	22	4.8	15
28	12	12	12	10	17	43	189	396	220	16	4.6	14
29	12	12	12	10	---	52	166	437	231	16	4.5	14
30	16	12	12	10	---	60	176	518	233	19	4.9	14
31	17	---	12	10	---	84	---	426	---	17	4.2	---
TOTAL	411	382.1	372	350	417	870	3338	10919	11548	2374	238.1	340.8
MEAN	13.3	12.7	12.0	11.3	14.9	28.1	111	352	385	76.6	7.68	11.4
MAX	27	17	12	12	17	84	207	656	594	210	15	21
MIN	11	6.1	12	10	10	17	72	105	220	16	4.2	3.8
AC-FT	815	758	738	694	827	1730	6620	21660	22910	4710	472	676

CAL YR 1977 TOTAL 7708.38 MEAN 21.1 MAX 155 MIN .00 AC-FT 15290
WTR YR 1978 TOTAL 31560.00 MEAN 86.5 MAX 656 MIN 3.8 AC-FT 62600

09257000 LITTLE SNAKE RIVER NEAR DIXON, WY

LOCATION.--Lat 41°01'42", long 107°32'55", in SE¼NW¼ sec.8, T.12 N., R.90 W., Carbon County, Hydrologic Unit 14050003, on left bank 200 ft (61 m) upstream from highway bridge, 1,000 ft (305 m) upstream from Willow Creek, and 0.8 mi (1.3 km) west of Dixon.

DRAINAGE AREA.--988 mi^2 (2,559 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1910 to September 1923, March 1938 to current year (no winter records since 1971). Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 1243: 1920(M)

GAGE.--Water-stage recorder. Datum of gage is 6,331.22 ft (1,929.756 m), National Geodetic Vertical Datum of 1929. May 27, 1910, to Sept. 30, 1923, nonrecording gage on highway bridge 200 ft (61 m) downstream at datum 2.98 ft (0.908 m) higher. Mar. 15, 1938, to Sept. 30, 1957, water-stage recorder at site 225 ft (69 m) downstream at datum 2.98 ft (0.908 m) higher; Oct. 1, 1957, to June 6, 1968, at site 850 ft (259 m) downstream at present datum, and June 7 to Sept. 30, 1968, at site 225 ft (69 m) downstream at present datum.

REMARKS.--Records good except those for periods of no gage-height record, Oct. 11, Mar. 22-28, Apr. 2-19, and Sept. 4-27, which are poor. Diversions for irrigation of about 9,500 acres (38.4 km^2) above station. One diversion above station for irrigation of about 3,000 acres (12.1 km^2) below. Transbasin diversions above station.

AVERAGE DISCHARGE.--46 years (water years 1911-23, 1939-71), 514 ft^3/s (14.56 m^3/s), 372,400 acre-ft/yr (459 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 9,600 ft^3/s (272 m^3/s) May 26, 1920, gage height, 11.6 ft (3.54 m), present datum; maximum gage height, 11.74 ft (3.578 m) May 30, 1971; no flow Sept. 19, 20, 22, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,200 ft^3/s (90.6 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
May 17	1100	4,880	138	10.15	3.094
May 25	1000	4,520	128	9.88	3.011
June 11	1700	*5,000	142	10.25	3.124

Minimum daily discharge during period of operation, 0.10 ft^3/s (0.003 m^3/s) Oct. 1, 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10					---	845	1420	2680	1470	7.2	.56
2	10					---	840	1460	2740	1320	6.8	.56
3	13					---	700	1900	2720	1200	6.4	.36
4	17					---	600	1810	3200	1090	5.6	.34
5	20					---	585	1360	3110	936	5.6	.35
6	24					---	545	1120	2960	805	5.6	.42
7	4.2					---	650	954	3040	720	6.0	.80
8	30					---	740	865	3060	660	6.0	1.0
9	15					---	610	785	3250	600	5.6	1.0
10	6.0					---	530	942	3970	541	5.2	.95
11	4.5					---	485	1250	4590	505	5.2	1.1
12	---					---	550	1310	4100	570	5.2	1.4
13	---					---	540	1370	3710	460	5.2	1.3
14	---					---	560	2180	3890	361	7.6	1.2
15	---					---	630	3200	3790	301	33	1.1
16	---					---	655	4100	3840	273	21	1.0
17	---					---	655	4390	3540	233	6.0	1.1
18	---					---	500	2940	2970	193	3.5	1.3
19	---					---	485	2390	2750	146	3.2	1.6
20	---					---	655	2490	2570	91	3.7	1.7
21	---					136	805	2790	2350	80	2.4	1.7
22	---					140	675	2970	2380	68	1.9	1.8
23	---					148	575	3610	2380	50	1.7	1.9
24	---					156	523	3910	2380	38	1.4	1.9
25	---					166	715	3970	2440	31	1.0	1.9
26	---					179	1060	3260	2220	21	.84	1.9
27	---					197	1440	3210	1860	17	.56	1.8
28	---					224	1360	2730	1710	9.8	.45	1.7
29	---					272	1190	2730	1640	5.2	.36	8.4
30	---					366	1360	3230	1600	18	.29	16
31	---					510	---	2930	---	14	.36	---
TOTAL	---					---	22063	73576	87440	12827.0	164.86	58.14
MEAN	---					---	735	2373	2915	414	5.32	1.94
MAX	---					---	1440	4390	4590	1470	33	16
MIN	---					---	485	785	1600	5.2	.29	.34
AC-FT	---					---	43760	145900	173400	25440	327	115

09257000 LITTLE SNAKE RIVER NEAR DIXON, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
OCT											
11...	1715	5.0	300	8.1	8.4	2	10.8	130	0	36	9.3
MAR											
22...	0830	--	330	8.2	5.0	35	10.0	130	12	39	9.1

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 105 DEG. C, DIS-SOLVED (MG/L)
OCT											
11...	16	.6	2.4	160	0	130	29	3.8	.3	16	190
MAR											
22...	15	.6	2.5	150	0	120	36	3.7	--	13	--

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)
OCT											
11...	192	.26	2.59	3	.01	.05	.01	.01	.11	.18	.16
MAR											
22...	192	.26	--	--	.02	--	--	--	--	--	.88

DATE	NITRO-GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	PHYTO-PLANK-TON, TOTAL (CELLS PER ML)	IN-VERTE-BRATES, BENTHIC WET WT. (G/SQ METER)	BIOMASS CHLORO-PHYLL RATIO PLANK-TON (UNITS)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L)
OCT											
11...	.00	.19	.06	.00	.00	.00	2800	5.3	--	--	--
MAR											
22...	.25	.63	.11	--	.00	.00	--	--	4706	3.40	.000

DATE	TIME	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA)	BARIUM, DIS-SOLVED (UG/L AS BA)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM SUS-PENDED RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)
OCT											
11...	1715	70	10	2	2	200	100	50	<10	--	1
MAR											
22...	0830	--	--	--	--	--	--	--	61	61	0

09257000 LITTLE SNAKE RIVER NEAR DIXON, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)
OCT 11...	10	0	<10	--	0	400	80	<100	--	4	70
MAR 22...	--	--	3	3	0	--	30	3	0	4	--

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, TOTAL RECOVERABLE (UG/L AS AG)	SILVER, DISSOLVED (UG/L AS AG)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)
OCT 11...	.0	.0	2	0	0	0	<10	0	8	0
MAR 22...	--	--	--	--	--	--	--	--	--	--

DATE	TIME	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DISSOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DISSOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DISSOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DISSOLVED (UG/L AS U)
OCT 11...	1715	<3.2	<.4	4.7	.6	3.8	.6	.82	1.2

09257000 LITTLE SNAKE RIVER NEAR DIXON, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	TEMPER-ATURE (DEG C)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT						
11...	1715	8.4	5.0	5	.07	--
27...	1145	--	3.7	10	.10	--
NOV						
16...	0920	--	33	8	.71	--
MAR						
21...	1000	--	146	40	16	--
22...	0830	5.0	--	84	--	95
APR						
20...	1300	--	701	77	146	--
MAY						
03...	1225	--	2060	716	3980	--
25...	1330	--	4510	485	5910	--
JUN						
21...	1500	--	2520	150	1020	--
JUL						
20...	1200	--	95	8	2.1	--
AUG						
16...	0930	--	26	6	--	--
SEP						
28...	1200	--	1.9	4	.02	--

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM	BED MAT. FALL DIAM. % FINER THAN 1.00 MM
JUL							
20...	1200	95	1	4	8	11	12

DATE	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM
JUL						
20...	14	17	22	40	91	100

09257000 LITTLE SNAKE RIVER NEAR DIXON, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 11,77
TIME	1715
TOTAL CELLS/ML	2800
DIVERSITY: DIVISION	1.5
.CLASS	1.6
..ORDER	1.8
...FAMILY	2.7
....GENUS	3.3

ORGANISM	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...CHARACIACEAE		
....SCHROEDERIA	*	0
...COELASTRACEAE		
....COELASTRUM	*	0
...OOCYSTACEAE		
....ANKISTRODESMUS	48	2
....CHLORELLA	*	0
....CHODATELLA	*	0
....OOCYSTIS	*	0
....SELENASTRUM	24	1
...SCENEDESMACEAE		
....SCENEDESMUS	350	13
..VOLVOCALES		
...CHLAMYDOMONADACEAE		
....CHLAMYDOMONAS	*	0
..ZYGNEMATALES		
...ZYGNEMATACEAE		
....MOUGEOTIA	*	0
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..CENTRALES		
...COSCINODISCACEAE		
....CYCLOTELLA	85	3
..PENNALES		
...ACHNANTHACEAE		
....COCCONEIS	24	1
...CYMBELLACEAE		
....EPITHEMIA	73	3
...DIATOMACEAE		
....DIATOMA	*	0
...FRAGILARIACEAE		
....FRAGILARIA	450#	16
....SYNEDRA	640#	23
...GOMPHONEMATACEAE		
....GOMPHONEMA	*	0
...NAVICULACEAE		
....NAVICULA	120	4
...NITZSCHIACEAE		
....NITZSCHIA	85	3
.CHRYSOPHYCEAE		
..CHRYSOMONADALES		
...CHROMULINACEAE		
....CHRYSOCOCCUS	*	0
....KEPHYRION	*	0
...MALLOMONADACEAE		
....MALLOMONAS	*	0
CRYPTOPHYTA (CRYPTOMONADS)		
.CRYPTOPHYCEAE		
..CRYPTOMONADALES		
...CRYPTO,ONADACEAE		
....CRYPTOMONAS	*	0
CYANOPHYTA (BLUE-GREEN ALGAE)		
.CYANOPHYCEAE		
..HORMOGONALES		
...OSCILLATORIACEAE		
....LYNGBYA	610#	22
....OSCILLATORIA	85	3
EUGLENOPHYTA (EUGLENOIDS)		
.EUGLENOPHYCEAE		
..EUGLENALES		
...EUGLENACEAE		
....TRACHELOMONAS	*	0

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

OCT. 11. 1977
1715 HOURS

PERIPHYTON IDENTIFICATION

_ORGANISM__NAME_______________	_COMMON__NAME_______
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..CHLOROCOCCALES	
...HYDRODICTYACEAE	
....PEDIASTRUM	
...SCENEDESMACEAE	
....SCENEDESMUS	
..ZYGNEMATALES	
...DESMIDIACEAE	PLACODERM DESMIDS
....CLOSTERIUM	
....COSMARIUM	
...ZYGNEMATACEAE	
....MOUGEOTIA	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..CENTRALES	CENTRIC
...COSCINODISCACEAE	
....MELOSIRA	
..PENNALES	PENNATE
...ACHNANTHACEAE	
....COCCONEIS	
...CYMBELLACEAE	
....AMPHORA	
....CYMBELLA	
& ....EPITHEMIA	
...DIATOMACEAE	
& ....DIATOMA	
...FRAGILARIACEAE	
....FRAGILARIA	
& ....SYNEDRA	
...GOMPHONEMATACEAE	
....GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
....CALONEIS	
& ....NAVICULA	
...NITZSCHIACEAE	
....NITZSCHIA	
CYANOPHYTA	BLUE-GREEN ALGAE
.CYANOPHYCEAE	
..HORMOGONALES	FILAMENTOUS BL-GREEN
...NOSTOCACEAE	
....ANABAENA	
...OSCILLATORIACEAE	
....OSCILLATORIA	
...RIVULARIACEAE	
....CALOTHRIX	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED

ANALYSIS METHOD: PERMANENT SLIDE MOUNTING. INVERTED MICROSCOPE

09257000 LITTLE SNAKE RIVER NEAR DIXON, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

BENTHIC INVERTEBRATE ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 11,77
TIME	1715
TOTAL COUNT	79
DIVERSITY: PHYLUM	0.5
.CLASS	0.6
..ORDER	2.1
...FAMILY	2.8
....GENUS	3.3
....GENUS-INSECTA	2.9

ORGANISM	COUNT
ARTHROPODA (ARTHROPODS)	
.INSECTA	
..COLEOPTERA	
...DRYOPIDAE	
....HELICHUS	3
...ELMIDAE	
....MICROCYLLOEPUS	1
....OPTIOSERVUS	14
....ZAITZEVIA	7
...HYDROPHILIDAE	
....HELOPHORUS	1
..DIPTERA	
...CHIRONOMIDAE	
....PENTANEURA	4
...SIMULIIDAE	
....SIMULIUM	1
...TIPULIDAE	
....HEXATOMA	2
....TIPULA	1
..EPHEMEROPTERA	
...EPHEMERIDAE	
....EPHEMERA	2
...LEPTOPHLEBIIDAE	
....PARALEPTOPHLEBIA	1
...TRICORYTHIDAE	
....TRICORYTHODES	1
..ODONATA	
...GOMPHIDAE	
....OPHIOGOMPHUS	1
..TRICHOPTERA	
...HYDROPSYCHIDAE	
....CHEUMATOPSYCHE	29
...LEPTOCERIDAE	
....OECETIS	1
...HYDROPSYCHIDAE	
....HYDROPSYCHE	2
.ARACHNIDA	
..HYDRACARINA	
...UNKNOWN FAMILY	
....UNKNOWN GENUS #3	1
MOLLUSCA (MOLLUSCS)	
.GASTROPODA	
..BASOMMATOPHORA	
...ANCYLIDAE	
....FERRISSIA	1
...LYMNAEIDAE	
....LYMNAEA	1
...PHYSIDAE	
....PHYSA	4
PLATYHELMINTHES (FLATWORMS)	
.TURBELLARIA	
..TRICLADIDA	
...PLANARIIDAE	
....UNKNOWN GENUS	1

09258000 WILLOW CREEK NEAR DIXON, WY

LOCATION.--Lat 40°54'56", long 107°31'16", on line between secs.8 and 17, T.11 N., R.90 W., Moffat County, CO, Hydrologic Unit 14050003, on right bank 6.2 mi (10.0 km) south of Colorado-Wyoming State line, 8.0 mi (12.9 km) upstream from mouth, and 8.3 mi (13.4 km) south of Dixon.

DRAINAGE AREA.--24 mi² (62 km²), approximately.

PERIOD OF RECORD.--October 1953 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,700 ft (2,042 m), from topographic map.

REMARKS.--Records good except those for winter period, which are fair. One small ditch diverts water above station for irrigation. Regulation by Elk Lake, capacity, 400 acre-ft (493,000 m³).

AVERAGE DISCHARGE.--25 years, 9.54 ft³/s (0.270 m³/s), 6,910 acre-ft/yr (8.52 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 319 ft³/s (9.03 m³/s) Apr. 25, 1974, gage height, 5.42 ft (1.652 m), from rating curve extended above 160 ft³/s (4.5 m³/s); no flow Sept. 17-19, 1955, and for many days July to September 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 70 ft³/s (2.0 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Mar. 31	1900	103	2.92	3.91	1.192
June 15	2400	*109	3.09	3.96	1.207

Minimum daily discharge, 0.02 ft³/s (0.001 m³/s) Oct. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TU SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.50	.93	1.3	1.2	1.4	1.7	66	18	25	52	9.7	2.2
2	.35	.90	1.2	1.1	1.4	1.8	37	18	28	51	8.7	1.5
3	.33	1.2	1.2	1.1	1.4	1.8	26	21	32	51	8.1	1.4
4	1.1	1.1	1.2	1.1	1.4	1.9	24	20	36	46	7.7	1.3
5	1.8	1.1	1.2	1.1	1.4	2.0	25	18	33	38	7.6	1.2
6	.45	1.2	1.2	1.1	1.4	2.1	22	16	31	32	7.2	1.4
7	3.6	1.2	1.2	1.2	1.4	2.2	40	15	34	29	7.1	1.7
8	.88	1.0	1.3	1.2	1.3	2.3	48	14	36	28	6.7	5.3
9	.21	.39	1.3	1.2	1.3	2.4	32	30	46	26	6.7	2.0
10	.09	.82	1.3	1.3	1.3	2.5	18	27	71	27	6.1	1.4
11	.02	1.1	1.3	1.3	1.3	2.6	24	22	84	29	5.9	2.1
12	1.5	1.2	1.3	1.3	1.3	2.6	26	18	67	30	5.8	2.4
13	2.5	1.0	1.3	1.3	1.3	2.6	18	17	62	21	6.5	2.2
14	2.5	1.4	1.3	1.3	1.3	2.7	22	26	76	19	9.9	2.0
15	2.5	1.4	1.3	1.3	1.3	2.9	22	37	78	17	9.3	1.7
16	2.5	1.0	1.3	1.3	1.3	3.0	24	41	90	16	7.2	1.4
17	2.5	.92	1.3	1.3	1.3	3.0	21	37	79	14	5.9	.50
18	2.5	1.7	1.3	1.3	1.4	3.0	12	31	60	11	6.1	2.4
19	2.3	1.1	1.3	1.3	1.4	3.0	10	25	58	9.5	6.7	2.0
20	2.4	.78	1.2	1.3	1.4	3.1	13	22	54	9.6	5.6	1.9
21	2.8	1.5	1.1	1.3	1.4	3.2	15	21	56	10	5.4	1.3
22	3.4	1.5	1.1	1.3	1.5	3.5	10	21	69	9.3	5.1	2.0
23	2.9	1.5	1.0	1.4	1.5	4.0	7.7	27	77	8.1	4.8	2.5
24	2.7	1.4	1.0	1.4	1.5	4.5	6.2	34	83	7.4	4.4	1.7
25	1.8	1.4	1.0	1.4	1.6	5.4	12	30	94	6.7	4.0	1.2
26	.90	1.4	1.0	1.4	1.6	6.0	18	28	71	6.3	2.9	.50
27	.85	1.3	1.1	1.4	1.7	8.0	23	27	57	5.8	2.2	.34
28	.83	1.3	1.1	1.4	1.7	10	18	22	55	6.8	2.2	.42
29	.78	1.3	1.2	1.4	---	15	16	25	56	11	2.1	.40
30	1.5	1.3	1.2	1.4	---	24	18	33	56	10	2.0	.41
31	1.5	---	1.2	1.4	---	45	---	28	---	9.0	2.1	---
TOTAL	50.49	35.34	37.3	39.8	39.5	177.8	673.9	769	1754	646.5	181.7	48.77
MEAN	1.63	1.18	1.20	1.28	1.41	5.74	22.5	24.8	58.5	20.9	5.86	1.63
MAX	3.6	1.7	1.3	1.4	1.7	45	66	41	94	52	9.9	5.3
MIN	.02	.39	1.0	1.1	1.3	1.7	6.2	14	25	5.8	2.0	.34
AC-FT	100	70	74	79	78	353	1340	1530	3480	1280	360	97

CAL YR 1977 TOTAL 897.61 MEAN 2.46 MAX 13 MIN .00 AC-FT 1780
WTR YR 1978 TOTAL 4454.10 MEAN 12.2 MAX 94 MIN .02 AC-FT 8830

09258200 DRY COW CREEK NEAR BAGGS, WY

LOCATION.--Lat 41°20'24", long 107°40'14", in SE¼SE¼ sec.19, T.16 N., R.91 W., Carbon County, Hydrologic Unit 14050004, 1.6 mi (2.6 km) upstream from county road, 4.3 mi (6.9 km) upstream from mouth, and 21 mi (34 km) north of Baggs.

DRAINAGE AREA.--49.7 mi^2 (128.7 km^2).

PERIOD OF RECORD.--Water years 1976 to September 1978 (discontinued).

REMARKS.--Peak-flow information also collected at this site.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	UXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACU3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
MAR											
21...	0845	E.45	460	8.6	.5	1500	10.6	37	0	8.5	3.8
APR											
20...	0945	.05	2450	--	7.0	1	--	--	--	--	--

E-Estimate.

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACU3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM UF CONSTI-TUENTS, DIS-SOLVED (MG/L)
MAR										
21...	98	7.0	3.8	170	4	150	65	21	2.6	292
APR										
20...	--	--	--	--	--	--	--	--	--	--

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	IRON, DIS-SOLVED (UG/L AS FE)
MAR										
21...	.40	.35	.28	4.3	2.2	2.1	2.1	.03	.09	200
APR										
20...	--	--	--	--	--	--	--	--	--	--

DATE	TIME	TEMPER-ATURE (DEG C)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM
MAR								
21...	0845	.5	E.45	2140	2.6	92	99	100
APR								
20...	0945	7.0	.05	8	.00	--	--	--

E-Estimate.

09259700 LITTLE SNAKE RIVER NEAR BAGGS, WY

LOCATION.--Lat 41°00'17", long 107°54'59", in SW¼ sec.18, T.12 N., R.94 W., Carbon County, Hydrologic Unit 14050003, at former discharge station, 600 ft (183 m) upstream from Wyoming-Colorado State line, 0.5 mi (0.8 km) upstream from Scandinavian Wash, and 15 mi (24 km) west of Baggs.

DRAINAGE AREA.--3,020 mi^2 (7,820 km^2), approximately.

PERIOD OF RECORD.--Water years 1965 to August 1976, October 1977 to September 1978.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)
OCT 14...	1630	--	920	8.6	14.5	150	9.8	200	0	46	21
JUN 09...	1415	3400	--	--	--	--	--	40	2	9.9	2.4
JUL 20...	0930	95	--	--	18.0	--	--	79	0	22	5.9
AUG 22...	1330	22	--	--	18.0	--	--	130	0	36	10
SEP 28...	1010	45	--	--	12.0	--	--	130	0	37	9.1

DATE	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 105 DEG. C, DISSOLVED (MG/L)
OCT 14...	120	3.7	4.0	250	0	210	200	42	.6	8.2	580
JUN 09...	3.1	.2	1.0	46	0	38	6.6	3.0	.2	9.5	--
JUL 20...	10	.5	1.8	100	5	90	11	1.1	.3	11	--
AUG 22...	31	1.2	1.8	180	0	150	33	6.7	.3	1.7	--
SEP 28...	20	.8	2.1	170	0	140	28	4.1	.3	6.6	--

DATE	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)
OCT 14...	566	.77	--	200	--	.17	.03	.06	.08	.72	.52
JUN 09...	58	.08	532	--	.00	--	--	--	--	--	--
JUL 20...	119	.16	30.5	--	.36	--	--	--	--	--	--
AUG 22...	209	.28	12.7	--	.00	--	--	--	--	--	--
SEP 28...	191	.26	23.2	--	.02	--	--	--	--	--	--

DATE	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHUSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	PHYTOPLANKTON, TOTAL (CELLS PER ML)	INVERTEBRATES, BENTHIC WET WT. (G/SQ METER)	SEDIMENT, SUSPENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 14...	.75	.17	.58	.17	.01	.00	.00	1900	.2	244	100
JUN 09...	--	--	--	.06	--	--	--	--	--	--	--
JUL 20...	--	--	--	.18	--	--	--	--	--	--	--
AUG 22...	--	--	--	.02	--	--	--	--	--	--	--
SEP 28...	--	--	--	.02	--	--	--	--	--	--	--

09259700 LITTLE SNAKE RIVER NEAR BAGGS, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BORON, DISSOLVED (UG/L AS B)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)
OCT								
14...	1630	20	1	0	140	1	5	2

DATE	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	ZINC, DISSOLVED (UG/L AS ZN)
OCT								
14...	50	7	20	.0	3	1	0	10

DATE	TIME	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DISSOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DISSOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RA-226, DISSOLVED, PLANCHET COUNT (PCI/L)	URANIUM NATURAL DISSOLVED (UG/L AS U)
OCT									
14...	1630	15	13	11	11	9.5	10	<.1	3.9

DATE	TIME	2,4-D, TOTAL (UG/L)	2,4-D, TOTAL IN BOTTOM MATERIAL (UG/KG)	2,4,5-T TOTAL (UG/L)	2,4,5-T TOTAL IN BOTTOM MATERIAL (UG/KG)	SILVEX, TOTAL (UG/L)	SILVEX, TOTAL IN BOTTOM MATERIAL (UG/KG)
JUN							
09...	1415	.03	0	.00	0	.00	.0
JUL							
20...	0930	.00	0	.00	0	.00	.0
AUG							
22...	1330	.00	0	.00	0	.00	.0
SEP							
28...	1010	.00	0	.00	0	.00	.0

DATE	TOTAL DICAMBA (UG/L)	DICAMBA IN BOTTOM MATERIAL (UG/KG)	TOTAL PICLORAM (UG/L)	PICLORAM IN BOTTOM MATERIAL (UG/KG)
JUN				
9...	.00	0	.00	0
JUL				
20...	.00	0	.00	0
AUG				
22...	.00	.1	.01	0
SEP				
28...	.00	0	.00	0

09259700 LITTLE SNAKE RIVER NEAR BAGGS, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 14,77
TIME	1630
TOTAL CELLS/ML	1900
DIVERSITY: DIVISION	1.6
.CLASS	1.6
..ORDER	2.2
...FAMILY	3.1
....GENUS	3.8

ORGANISM	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...OOCYSTACEAE		
....ANKISTRODESMUS	61	3
....CHLORELLA	140	7
....CHODATELLA	15	1
....DICTYOSPHAERIUM	120	6
....KIRCHNERIELLA	15	1
...SCENEDESMACEAE		
....ACTINASTRUM	180	10
....SCENEDESMUS	210	11
..TETRASPORALES		
...PALMELLACEAE		
....GLOEOCYSTIS	61	3
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..CENTRALES		
...COSCINODISCACEAE		
....CYCLOTELLA	250	13
..PENNALES		
...FRAGILARIACEAE		
....SYNEDRA	180	10
...NAVICULACEAE		
....NAVICULA	92	5
...NITZSCHIACEAE		
....CYLINDROTHECA	77	4
....NITZSCHIA	230	12
CRYPTOPHYTA (CRYPTOMONADS)		
.CRYPTOPHYCEAE		
..CRYPTOMONADALES		
...CRYPTO,ONADACEAE		
....CRYPTOMONAS	15	1
CYANOPHYTA (BLUE-GREEN ALGAE)		
.CYANOPHYCEAE		
..CHROOCOCCALES		
...CHROOCOCCACEAE		
....ANACYSTIS	61	3
..HORMOGONALES		
...NOSTOCACEAE		
....APHANIZOMENON	120	6
EUGLENOPHYTA (EUGLENOIDS)		
.EUGLENOPHYCEAE		
..EUGLENALES		
...EUGLENACEAE		
....EUGLENA	15	1
....TRACHELOMONAS	46	2

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

09259700 LITTLE SNAKE RIVER NEAR BAGGS, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

OCT. 14, 1977
1630 HOURS

PERIPHYTON IDENTIFICATION

_ORGANISM__NAME	_COMMON__NAME
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...CYMBELLACEAE	
....EPITHEMIA	
...DIATOMACEAE	
....DIATOMA	
...FRAGILARIACEAE	
....SYNEDRA	
...GOMPHONEMATACEAE	
....GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
....GYROSIGMA	
....NAVICULA	
...NITZSCHIACEAE	
....CYLINDROTHECA	
....NITZSCHIA	
...SURIRELLACEAE	
....SURIRELLA	
CYANOPHYTA	BLUE-GREEN ALGAE
.CYANOPHYCEAE	
..HORMOGONALES	FILAMENTOUS BL-GREEN
...NOSTOCACEAE	
....ANABAENA	
...OSCILLATORIACEAE	
....LYNGBYA	

NOTE: ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

BENTHIC INVERTEBRATE ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 14,77
TIME	1630
TOTAL COUNT	72
DIVERSITY: PHYLUM	0.5
.CLASS	0.6
..ORDER	1.1
...FAMILY	1.4
....GENUS	1.4
....GENUS-INSECTA	0.9

ORGANISM	COUNT
ANNELIDA	
.OLIGOCHAETA	
..PLESIOPORA	
...NAIDIDAE	
....NAIS	8
ARTHROPODA (ARTHROPODS)	
.INSECTA	
..DIPTERA	
...CHIRONOMIDAE	
....MICROTENDIPES	2
...TIPULIDAE	
....HEXATOMA	1
..EPHEMEROPTERA	
...EPHEMERELLIDAE	
....EPHEMERELLA	3
...TRICORYTHIDAE	
....TRICORYTHODES	54
..TRICHOPTERA	
...HYDROPSYCHIDAE	
....CHEUMATOPSYCHE	3
.ARACHNIDA	
..HYDRACARINA	
...UNKNOWN FAMILY	
....UNKNOWN GENUS #3	1

BEAR RIVER BASIN

10010400 EAST FORK BEAR RIVER NEAR EVANSTON, WY

LOCATION.--Lat 40°52'25", long 110°47'00", in SE¼SW¼ sec.26, T.2 N., R.10 E., Summit County, UT, Hydrologic Unit 16010101, Wasatch National Forest, on right bank 4.1 mi (6.6 km) upstream from mouth, 11.5 mi (18.5 km) upstream from Utah-Wyoming State line, and 28.7 mi (46.2 km) south of Evanston.

DRAINAGE AREA.--34.6 mi² (89.6 km²).

PERIOD OF RECORD.--October 1973 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 8,760 ft (2,670 m), from topographic map.

REMARKS.--Records good except those for winter months, which are fair.

AVERAGE DISCHARGE.--5 years, 52.6 ft³/s (1.49 m³/s), 38,110 acre-ft/yr (47.0 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 631 ft³/s (17.9 m³/s) July 4, 1975, gage height, 4.15 ft (1.265 m); minimum observed, 5.1 ft³/s (0.14 m³/s) Dec. 28, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 585 ft³/s (16.6 m³/s) June 14, gage height, 3.95 ft (1.204 m); minimum observed, 7.5 ft³/s (0.212 m³/s) Feb. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	12	12	9.0	8.0	8.0	25	34	170	279	58	19
2	15	12	11	9.0	8.0	8.0	23	33	178	261	53	19
3	14	12	10	9.0	8.0	8.0	22	36	189	232	49	18
4	13	12	10	9.0	8.0	8.0	21	37	191	210	46	18
5	13	12	10	9.0	8.0	8.0	19	35	191	191	44	18
6	22	12	10	9.0	8.0	9.0	19	35	206	177	42	17
7	26	12	10	9.0	8.0	9.0	19	34	244	167	40	18
8	18	12	10	9.0	8.0	9.0	19	30	281	165	39	20
9	17	12	10	9.0	8.0	9.0	21	34	359	161	38	17
10	16	12	10	8.5	8.0	9.0	25	36	442	154	36	17
11	15	12	10	9.0	8.0	9.0	27	37	410	154	35	20
12	15	12	10	9.0	8.0	9.0	30	38	392	151	42	20
13	15	12	10	9.0	8.0	9.0	30	49	452	139	49	19
14	14	12	10	9.0	8.0	9.0	26	76	506	131	54	18
15	14	11	10	9.0	8.0	9.0	27	104	509	127	46	17
16	13	12	10	9.0	8.0	10	30	121	470	132	38	17
17	13	12	10	9.0	8.0	11	27	96	414	128	34	20
18	13	12	10	9.0	8.0	11	31	82	376	119	34	24
19	12	12	10	9.0	8.0	11	30	80	370	112	31	19
20	13	12	9.0	9.0	8.0	12	26	88	372	105	29	22
21	14	12	9.0	8.0	8.0	12	27	84	403	98	27	21
22	13	12	9.0	8.0	7.5	12	26	111	419	92	27	20
23	12	12	9.0	8.0	8.0	12	25	139	409	85	26	20
24	12	12	9.0	8.0	8.0	12	27	150	422	80	24	19
25	12	12	9.0	8.0	8.0	13	34	144	415	76	23	18
26	12	12	9.0	8.0	8.0	13	45	141	339	73	23	17
27	12	13	9.0	8.0	8.0	13	41	132	311	71	22	16
28	12	13	9.0	8.0	8.0	13	37	132	315	67	22	16
29	12	14	9.0	8.0	---	16	34	159	316	66	21	15
30	13	13	9.0	8.0	---	20	34	179	292	63	20	15
31	12	---	9.0	8.0	---	21	---	172	---	61	20	---
TOTAL	441	364	301.0	267.5	223.5	342.0	827	2658	10363	4127	1092	554
MEAN	14.2	12.1	9.71	8.63	7.98	11.0	27.6	85.7	345	133	35.2	18.5
MAX	26	14	12	9.0	8.0	21	45	179	509	279	58	24
MIN	12	11	9.0	8.0	7.5	8.0	19	30	170	61	20	15
AC-FT	875	722	597	531	443	678	1640	5270	20560	8190	2170	1100

CAL YR 1977 TOTAL 11402.0 MEAN 31.2 MAX 318 MIN 6.0 AC-FT 22620
WTR YR 1978 TOTAL 21560.0 MEAN 59.1 MAX 509 MIN 7.5 AC-FT 42760

10010500 HILLIARD-EAST FORK CANAL NEAR STATE LINE, NEAR EVANSTON, WY

LOCATION.--Lat 40°54'49", long 110°49'25", in NW¼ sec.16, T.2 N., R.10 E., Summit County, UT, Hydrologic Unit 16010101, Wasatch National Forest, on left bank 300 ft (91 m) downstream from road bridge, 0.8 mi (1.3 km) downstream from head, and 28 mi (45 km) south of Evanston.

PERIOD OF RECORD.--November 1941 to current year. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Altitude of gage is 8,500 ft (2,590 m), from topographic map.

REMARKS.--Records good. Canal diverts from East Fork Bear River for irrigation of about 2,600 acres (10.5 km^2) in Hilliard Flat area in Wyoming.

AVERAGE DISCHARGE.--36 years, 4.78 ft^3/s (0.135 m^3/s), 3,460 acre-ft/yr (4.27 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 44 ft^3/s (1.25 m^3/s) July 3-5, 8, 1963; no flow during winter and at other times each year except 1958.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.03	.00	.00	.00	.00	.00	.00	.00	.98	1.6	28	1.7
2	.03	.00	.00	.00	.00	.00	.00	.00	1.0	6.2	26	20
3	.03	.00	.00	.00	.00	.00	.00	.00	1.0	17	25	20
4	.03	.00	.00	.00	.00	.00	.00	.00	.92	24	24	19
5	.06	.00	.00	.00	.00	.00	.00	.00	.74	24	13	19
6	.14	.00	.00	.00	.00	.00	.00	.00	.62	24	.34	18
7	.10	.00	.00	.00	.00	.00	.00	.00	.51	24	.26	19
8	.06	.00	.00	.00	.00	.00	.00	.00	.38	24	.18	21
9	.06	.00	.00	.00	.00	.00	.00	.00	.34	24	.18	19
10	.03	.00	.00	.00	.00	.00	.00	.00	.34	19	.18	18
11	.10	.00	.00	.00	.00	.00	.00	.00	.38	14	.18	21
12	.06	.00	.00	.00	.00	.00	.00	.00	.30	14	.18	22
13	.06	.00	.00	.00	.00	.00	.00	.00	.22	14	.18	20
14	.03	.00	.00	.00	.00	.00	.00	.00	.26	17	.22	20
15	.03	.00	.00	.00	.00	.00	.00	.00	.22	17	.18	19
16	.03	.00	.00	.00	.00	.00	.00	.00	.10	16	.18	12
17	.03	.00	.00	.00	.00	.00	.00	.00	.03	21	.18	.74
18	.03	.00	.00	.00	.00	.00	.00	.00	1.3	26	.18	.62
19	.10	.00	.00	.00	.00	.00	.00	.00	6.8	25	.14	.50
20	.10	.00	.00	.00	.00	.00	.00	.00	6.8	24	.14	.50
21	.10	.00	.00	.00	.00	.00	.00	.00	6.6	24	.14	.46
22	.10	.00	.00	.00	.00	.00	.00	.00	6.0	23	.18	.38
23	.10	.00	.00	.00	.00	.00	.00	.00	5.8	20	.18	.38
24	.10	.00	.00	.00	.00	.00	.00	.00	5.7	21	.14	.34
25	.10	.00	.00	.00	.00	.00	.00	.00	5.0	26	.14	.34
26	.00	.00	.00	.00	.00	.00	.00	.00	4.3	2.4	.14	.34
27	.00	.00	.00	.00	.00	.00	.00	.00	1.3	12	.14	.34
28	.00	.00	.00	.00	.00	.00	.00	.46	.42	29	.14	.34
29	.00	.00	.00	.00	---	.00	.00	1.4	.26	29	.10	.34
30	.00	.00	.00	.00	---	.00	.00	1.0	1.1	28	.10	.34
31	.00	---	.00	.00	---	.00	---	1.1	---	28	.10	---
TOTAL	1.64	.00	.00	.00	.00	.00	.00	3.96	59.72	618.2	120.40	294.66
MEAN	.053	.000	.000	.000	.000	.000	.000	.13	1.99	19.9	3.88	9.82
MAX	.14	.00	.00	.00	.00	.00	.00	1.4	6.8	29	28	22
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.03	1.6	.10	.34
AC-FT	3.3	.00	.00	.00	.00	.00	.00	7.9	118	1230	239	584

CAL YR 1977 TOTAL 389.43 MEAN 1.07 MAX 35 MIN .00 AC-FT 772
WTR YR 1978 TOTAL 1098.58 MEAN 3.01 MAX 29 MIN .00 AC-FT 2180

10011200 WEST FORK BEAR RIVER AT WHITNEY DAM, NEAR OAKLEY, UT

LOCATION.--Lat 40°50'30", long 110°55'35", in NE¼ sec.9, T.1 N., R.9 E., Summit County, Hydrologic Unit 16010101, Wasatch National Forest, on left bank 1,380 ft (421 m) downstream from Whitney Dam, 7 mi (11 km) upstream from Deer Creek, and 21.5 mi (34.6 km) northeast of Oakley.

DRAINAGE AREA.--6.79 mi^2 (17.59 km^2).

PERIOD OF RECORD.--October 1963 to current year. Prior to October 1965, published as "at Whitney Dam Site".

REVISED RECORD.--WRD UT-1973: Drainage area.

GAGE.--Water-stage recorder and concrete control with V-notch sharp-crested weir since Aug. 4, 1966. Altitude of gage is 9,120 ft (2,780 m), from topographic map.

REMARKS.--Records good. Flow regulated by Whitney Reservoir, total capacity, 4,700 acre-ft (5.80 hm^3) since July 1966.

AVERAGE DISCHARGE.--12 years (water years 1967-78), 8.10 ft^3/s (0.229 m^3/s), 5,870 acre-ft/yr (7.24 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 145 ft^3/s (4.11 m^3/s) June 13, 1965; maximum gage height, 3.08 ft (0.939 m) June 26, 1967; no flow July 24 to Sept. 30, Nov. 16-29, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 96 ft^3/s (2.72 m^3/s) Sept. 2, gage height, 2.96 ft (0.902 m); minimum, 0.47 ft^3/s (0.013 m^3/s) Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.82	.60	1.0	1.0	1.0	1.0	1.0	1.0	1.0	28	68	6.0
2	.82	.50	1.0	1.0	1.0	1.0	1.0	1.0	1.0	23	40	61
3	.82	.50	1.0	1.0	1.0	1.0	1.0	1.0	1.0	21	6.0	91
4	.79	.50	1.0	1.0	1.0	1.0	1.0	1.0	1.0	19	6.0	91
5	.73	.50	1.0	1.0	1.0	1.0	1.0	1.0	1.0	17	6.0	88
6	.76	.90	1.0	1.0	1.0	1.0	1.0	1.0	1.0	17	6.0	87
7	.76	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	16	6.0	86
8	.76	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	14	6.0	85
9	.73	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	13	6.0	83
10	.76	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	12	6.0	82
11	.79	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	11	6.0	80
12	.82	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	10	6.0	88
13	.82	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	9.5	6.0	83
14	.79	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.2	9.0	6.0	77
15	.76	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.2	8.8	6.0	74
16	.73	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.2	8.4	6.0	29
17	.64	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.2	7.4	6.0	7.2
18	.64	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.2	6.5	6.0	7.2
19	.62	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.2	5.3	6.0	7.0
20	.62	1.0	1.0	1.0	1.0	1.0	1.0	1.0	20	4.7	6.0	7.0
21	.62	1.0	1.0	1.0	1.0	1.0	1.0	1.0	50	4.4	6.0	7.0
22	.92	1.0	1.0	1.0	1.0	1.0	1.0	1.0	52	4.1	6.0	7.0
23	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	50	3.8	6.0	7.0
24	1.4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	48	3.6	6.0	5.8
25	1.3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	48	3.2	6.0	1.0
26	1.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0	41	3.0	6.0	1.1
27	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	36	2.8	6.0	.94
28	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	32	2.6	6.0	.54
29	.90	1.0	1.0	1.0	---	1.0	1.0	1.0	31	42	6.0	.52
30	.80	1.0	1.0	1.0	---	1.0	1.0	1.0	30	69	6.0	.47
31	.70	---	1.0	1.0	---	1.0	---	1.0	---	68	6.0	---
TOTAL	25.92	27.80	31.0	31.0	28.0	31.0	30.0	31.0	458.2	467.1	282.0	1250.77
MEAN	.84	.93	1.00	1.00	1.00	1.00	1.00	1.00	15.3	15.1	9.10	41.7
MAX	1.4	1.1	1.0	1.0	1.0	1.0	1.0	1.0	52	69	68	91
MIN	.62	.50	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.6	6.0	.47
AC-FT	51	55	61	61	56	61	60	61	909	926	559	2480

CAL YR 1977 TOTAL 739.70 MEAN 2.03 MAX 19 MIN .42 AC-FT 1470
WTR YR 1978 TOTAL 2693.79 MEAN 7.38 MAX 91 MIN .47 AC-FT 5340

10011400 WEST FORK BEAR RIVER BELOW DEER CREEK, NEAR EVANSTON, WY

LOCATION.--Lat 40°56'40", long 110°51'40", in NW¼SW¼ sec.6, T.2 N., R.10 E., Summit County, UT, Hydrologic Unit 16010101, on left bank 0.8 mi (1.3 km) downstream from Deer Creek, 2.1 mi (3.4 km) upstream from mouth, and 22.9 mi (36.8 km) south of Evanston.

DRAINAGE AREA.--52.2 mi² (135.2 km²).

PERIOD OF RECORD.--October 1973 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 8,190 ft (2,496 m), from topographic map.

REMARKS.--Records good except those for winter period, which are fair. Flow regulated by Whitney Reservoir, total capacity, 4,700 acre-ft (5.80 hm³), since July 1966.

AVERAGE DISCHARGE.--5 years, 42.2 ft³/s (1.20 m³/s), 30,570 acre-ft/yr (37.7 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 511 ft³/s (14.5 m³/s) June 8, 1975, gage height, 4.00 ft (1.219 m); minimum, 2.0 ft³/s (0.057 m³/s) Aug. 11, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 321 ft³/s (9.09 m³/s) June 8, gage height, 3.28 ft (1.000 m); minimum, 4.6 ft³/s (0.130 m³/s) Feb. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.9	8.0	10	8.0	8.0	7.9	28	41	216	95	50	11
2	7.4	7.5	9.0	8.0	8.0	8.2	20	42	221	87	44	42
3	6.9	7.9	9.0	8.0	8.0	8.0	16	50	254	76	18	103
4	6.4	7.9	9.0	8.0	8.0	8.0	15	52	234	69	16	102
5	6.4	7.9	9.0	8.0	8.0	8.2	15	43	218	64	15	101
6	11	8.6	9.0	8.0	7.9	8.2	14	40	231	62	15	100
7	14	8.6	9.0	8.0	8.0	8.0	16	35	254	59	15	99
8	9.4	8.6	9.0	8.0	8.0	8.0	18	37	268	55	15	99
9	8.3	8.0	9.0	8.0	8.0	8.2	24	39	274	51	14	96
10	7.8	8.0	9.0	7.5	8.0	7.9	27	48	270	47	14	95
11	7.4	7.5	9.0	8.0	8.0	8.2	31	58	240	43	14	99
12	7.3	7.5	9.0	8.0	8.0	8.2	32	63	231	39	15	106
13	7.2	7.5	9.0	8.0	8.0	8.2	30	93	243	36	18	101
14	7.2	7.5	9.0	8.0	8.0	9.3	28	148	249	35	24	89
15	7.2	7.5	9.0	8.0	8.0	10	32	203	238	34	20	86
16	7.0	7.5	9.0	8.0	8.0	10	32	201	215	32	17	59
17	6.8	8.0	9.0	8.0	8.0	10	26	140	191	30	16	25
18	6.8	8.0	9.0	8.0	8.0	10	25	120	171	27	18	29
19	6.5	8.0	8.0	8.0	8.0	9.3	22	125	164	25	16	23
20	7.5	8.0	8.0	8.0	8.0	9.3	25	147	159	24	15	22
21	8.9	9.0	8.0	8.0	8.0	10	26	194	179	22	15	23
22	7.9	9.0	8.0	8.0	8.1	10	22	218	186	22	14	22
23	7.5	9.0	8.0	8.0	8.0	9.3	21	248	177	20	13	21
24	7.2	9.0	8.0	8.0	8.0	9.6	25	239	171	19	13	21
25	7.2	9.0	8.0	8.0	8.0	13	35	209	165	17	12	15
26	6.8	10	8.0	8.0	8.0	11	48	202	145	16	12	12
27	6.8	10	8.0	8.0	8.0	10	43	194	128	15	12	11
28	6.8	10	8.0	8.0	8.0	11	40	211	116	14	13	10
29	7.9	10	8.0	8.0	---	14	41	241	110	24	12	9.5
30	8.9	10	8.0	8.0	---	16	46	231	102	48	12	9.5
31	8.2	---	8.0	8.0	---	21	---	211	---	49	11	---
TOTAL	240.5	253.0	267.0	247.5	224.0	308.0	823	4123	6020	1256	528	1641.0
MEAN	7.76	8.43	8.61	7.98	8.00	9.94	27.4	133	201	40.5	17.0	54.7
MAX	14	10	10	8.0	8.1	21	48	248	274	95	50	106
MIN	6.4	7.5	8.0	7.5	7.9	7.9	14	35	102	14	11	9.5
AC-FT	477	502	530	491	444	611	1630	8180	11940	2490	1050	3250

CAL YR 1977 TOTAL 4649.6 MEAN 12.7 MAX 51 MIN 2.4 AC-FT 9220
WTR YR 1978 TOTAL 15931.0 MEAN 43.6 MAX 274 MIN 6.4 AC-FT 31600

10011500 BEAR RIVER NEAR UTAH-WYOMING STATE LINE

LOCATION.--Lat 40°57'55", long 110°51'10", in SE¼ sec.30, T.3 N., R.10 E., Summit County, UT, Hydrologic Unit 16010101, on left bank just downstream from West Fork and 2.8 mi (4.5 km) upstream from Utah-Wyoming State line.

DRAINAGE AREA.--172 mi² (445 km²).

PERIOD OF RECORD.--July 1942 to current year.

REVISED RECORDS.--WDR UT-1974: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 7,965 ft (2,427.7 m), from river-profile map.

REMARKS.--Records good except those for winter periods, which are fair. Flow regulated slightly by Whitney Reservoir, total capacity, 4,700 acre-ft (5.80 hm³) since 1966. Three diversions above station for irrigation of about 265 acres (107,000 m²) above and 2,600 acres (10.5 km²) below station.

AVERAGE DISCHARGE.--36 years, 189 ft³/s (5.35 m³/s), 136,900 acre-ft/yr (169 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,980 ft³/s (84.4 m³/s) June 6, 1968, gage height, 3.79 ft (1.155 m); maximum gage height, 4.27 ft (1.301 m) June 6, 1957; minimum discharge determined, 16 ft³/s (0.45 m³/s) Apr. 11, 1951, Nov. 5, 1954, Nov. 1, 1955, Oct. 30, 1956.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,100 ft³/s (31.2 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
June 9	2400	2,070	58.6	4.00	1.219	June 22	0100	1,470	41.6	3.39	1.033
June 14	0100	*2,300	65.1	4.11	1.253						

Minimum discharge, 19 ft³/s (0.538 m³/s) Nov. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	35	37	35	36	35	96	124	705	708	119	50
2	42	37	35	35	35	35	80	126	741	641	105	54
3	41	37	33	35	34	35	68	141	864	539	80	110
4	38	39	32	35	34	35	65	141	839	482	74	109
5	37	38	35	37	34	36	63	118	783	434	77	109
6	48	38	35	36	34	36	60	109	889	407	85	108
7	75	38	36	36	35	36	64	98	1160	381	81	108
8	54	33	36	36	35	36	66	97	1400	372	79	112
9	48	35	36	36	35	36	78	98	1530	368	78	108
10	45	35	36	35	37	37	91	119	1650	362	75	106
11	41	35	34	34	35	37	108	135	1320	368	75	114
12	41	33	32	34	35	38	110	138	1230	356	80	125
13	42	31	32	35	35	37	108	207	1540	311	111	123
14	40	31	32	35	35	37	100	363	1800	280	134	110
15	39	33	32	35	35	38	109	653	1620	257	109	105
16	39	31	35	35	35	39	112	635	1420	266	93	86
17	38	29	35	35	35	40	92	393	1130	254	82	71
18	38	31	35	35	35	40	89	293	948	222	86	96
19	37	29	35	35	35	41	85	272	921	195	79	74
20	40	30	35	36	36	42	89	331	946	172	73	72
21	43	30	35	34	36	43	98	470	1090	157	70	74
22	41	32	35	35	38	45	85	611	1190	141	68	75
23	39	34	35	35	38	43	82	774	1130	130	66	67
24	38	34	40	35	37	43	91	764	1130	124	62	63
25	37	34	39	35	35	43	120	653	1150	115	60	55
26	36	34	37	36	34	45	171	611	889	127	58	51
27	35	31	38	36	35	46	150	537	800	118	56	49
28	35	31	36	36	35	50	133	581	811	98	57	46
29	37	40	34	36	---	55	128	771	825	104	55	45
30	41	39	34	36	---	62	138	816	742	121	54	45
31	39	---	35	36	---	75	---	718	---	118	52	---
TOTAL	1286	1017	1086	1095	988	1296	2929	11897	33195	8728	2433	2520
MEAN	41.5	33.9	35.0	35.3	35.3	41.8	97.6	384	1107	282	78.5	84.0
MAX	75	40	40	37	38	75	171	816	1800	708	134	125
MIN	35	29	32	34	34	35	60	97	705	98	52	45
AC-FT	2550	2020	2150	2170	1960	2570	5810	23600	65840	17310	4830	5000

CAL YR 1977 TOTAL 29508 MEAN 80.8 MAX 778 MIN 27 AC-FT 58530
WTR YR 1978 TOTAL 68470 MEAN 188 MAX 1800 MIN 29 AC-FT 135800

10015700 SULPHUR CREEK ABOVE RESERVOIR, NEAR EVANSTON, WY

LOCATION.--Lat 41°08'38", long 110°48'19", in SE¼SW¼ sec.35, T.14 N., R.119 W., Uinta County, Hydrologic Unit 16010101, on right bank 1.2 mi (1.9 km) downstream from Willow Creek, 2 mi (3 km) upstream from Sulphur Creek Dam, and 11.5 mi (18.5 km) southeast of Evanston.

DRAINAGE AREA.--64.2 mi² (166.3 km²).

PERIOD OF RECORD.--October 1957 to current year. Monthly discharge only for October and November 1957, published in WSP 1734.

REVISED RECORDS.--WDR UT-1974: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 7,180 ft (2,188 m), from topographic map.

REMARKS.--Records good except those for winter months, which are poor. Several diversions for irrigation above station.

AVERAGE DISCHARGE.--21 years, 16.3 ft³/s (0.462 m³/s), 11,810 acre-ft/yr (14.6 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,220 ft³/s (34.6 m³/s) Apr. 21, 1965, gage height, 6.02 ft (1.835 m); maximum gage height, 6.19 ft (1.887 m) Mar. 11, 1972 (backwater from ice); no flow at times most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 245 ft³/s (6.94 m³/s) Mar. 3, gage height, 4.17 ft (1.271 m); no flow Sept. 5, 6, 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.26	.28	1.3	2.0	2.0	3.0	170	57	47	6.4	.54	.06
2	.22	.30	1.4	2.0	2.0	3.0	80	41	50	5.4	.45	.05
3	.20	.30	1.5	2.0	2.0	3.0	51	35	94	4.5	.42	.05
4	.16	.30	1.5	2.0	2.0	3.0	45	36	110	4.3	.39	.04
5	.33	.28	1.5	2.0	2.0	4.0	45	29	107	5.1	.39	.02
6	1.7	.30	1.5	2.0	2.0	5.0	49	23	85	7.7	.45	.03
7	1.6	.30	1.5	2.0	2.0	6.0	56	46	79	7.7	.33	.05
8	.76	.28	1.4	2.0	2.0	7.0	47	66	62	5.4	.28	.06
9	.42	.22	1.0	2.0	2.0	8.0	41	64	62	3.8	.26	.05
10	.33	.22	1.2	2.0	2.0	9.0	37	55	62	2.7	.26	.02
11	.28	.26	1.4	2.0	2.0	10	38	50	44	2.2	.26	.10
12	.28	.26	1.6	2.0	2.0	10	36	45	34	1.9	.26	.20
13	.26	.26	1.8	2.0	2.0	10	29	48	31	1.9	.33	.16
14	.26	.30	2.0	2.0	2.0	9.0	26	81	29	1.9	.42	.18
15	.26	.33	2.0	2.0	2.0	9.0	29	125	27	2.4	.33	.20
16	.24	.30	2.0	2.0	2.0	10	26	148	25	3.0	.28	.18
17	.18	.30	2.0	2.0	2.0	15	22	84	21	2.0	.30	.45
18	.16	.36	2.0	2.0	2.0	20	23	95	17	1.2	.36	1.2
19	.16	.33	2.0	2.0	2.0	25	21	78	16	1.2	.36	.92
20	.18	.33	2.0	2.0	2.1	30	17	78	15	1.2	.33	.84
21	.30	.28	2.0	2.0	2.2	35	19	99	11	1.1	.24	.76
22	.28	.36	2.0	2.0	2.3	40	18	107	9.8	1.1	.14	.68
23	.28	.84	2.0	2.0	2.4	50	16	135	9.6	.84	.12	.60
24	.28	1.7	2.0	2.0	2.5	60	14	129	9.6	1.0	.10	.54
25	.26	2.0	2.0	2.0	3.0	70	15	85	10	1.4	.09	.54
26	.24	2.0	2.0	2.0	3.0	80	26	74	14	1.0	.08	.54
27	.22	2.0	2.0	2.0	3.0	90	36	59	14	.84	.07	.48
28	.20	2.2	2.0	2.0	3.0	100	27	57	12	.76	.06	.48
29	.24	2.4	2.0	2.0	---	95	21	65	11	.68	.07	.51
30	.28	2.6	2.0	2.0	---	115	57	70	9.8	.60	.07	.51
31	.28	---	2.0	2.0	---	105	---	51	---	.57	.07	---
TOTAL	11.10	22.19	54.6	62.0	61.5	1039.0	1137	2215	1127.8	81.79	8.11	10.50
MEAN	.36	.74	1.76	2.00	2.20	33.5	37.9	71.5	37.6	2.64	.26	.35
MAX	1.7	2.6	2.0	2.0	3.0	115	170	148	110	7.7	.54	1.2
MIN	.16	.22	1.0	2.0	2.0	3.0	14	23	9.6	.57	.06	.02
AC-FT	22	44	108	123	122	2060	2260	4390	2240	162	16	21

CAL YR 1977 TOTAL 691.00 MEAN 1.89 MAX 24 MIN .00 AC-FT 1370
WTR YR 1978 TOTAL 5830.59 MEAN 16.0 MAX 170 MIN .02 AC-FT 11560

10015900 SULPHUR CREEK BELOW RESERVOIR, NEAR EVANSTON, WY

LOCATION.--Lat 41°09'21", long 110°50'05", in SE¼SE¼ sec.28, T.14 N., R.119 W., Uinta County, Hydrologic Unit 16010101, on left bank 400 ft (122 m) downstream from Sulphur Creek Dam, 6.3 mi (10.1 km) upstream from mouth, and 10.5 mi (16.9 km) southeast of Evanston.

DRAINAGE AREA.--69.2 mi² (179.2 km²).

PERIOD OF RECORD.--April 1958 to current year.

REVISED RECORDS.--WDR UT-1974: Drainage area.

GAGE.--Water-stage recorder and concrete V-notch control. Altitude of gage is 7,120 ft (2,170 m), from topographic map.

REMARKS.--Records good. Flow regulated by Sulphur Creek Reservoir 400 ft (122 m) upstream, capacity, 7,100 acre-ft (8.75 hm³). Records prior to 1965 do not include flow over spillway of dam.

AVERAGE DISCHARGE.--13 years (water years 1966-78), 24.4 ft³/s (0.691 m³/s), 17,680 acre-ft/yr (21.8 hm³/yr).

EXTREMES FOR PERIOD OF RECORD (SINCE 1966).--Maximum discharge, 425 ft³/s (12.0 m³/s) May 10, 1974, gage height, 3.71 ft (1.131 m); no flow at times each year except 1972.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 113 ft³/s (3.20 m³/s) June 5, gage height, 2.22 ft (0.677 m); no flow on many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	58	16	50	23
2	.00	.00	.00	.00	.00	.00	.00	.00	56	13	57	18
3	.00	.00	.00	.00	.00	.00	.00	.00	60	12	64	16
4	.00	.00	.00	.00	.00	.00	.00	.00	72	10	52	16
5	.00	.00	.00	.00	.00	.00	.00	.00	96	9.8	38	15
6	.00	.00	.00	.00	.00	.00	.00	.02	107	11	38	16
7	.00	.00	.00	.00	.00	.00	.00	.00	99	11	38	17
8	.00	.00	.00	.00	.00	.00	.00	.05	90	12	28	25
9	.00	.00	.00	.00	.00	.00	.00	.03	84	11	17	28
10	.00	.00	.00	.00	.00	.00	.00	12	81	9.7	19	27
11	.00	.00	.00	.00	.00	.00	.00	19	79	8.9	22	26
12	.00	.00	.00	.00	.00	.00	10	19	79	6.5	22	26
13	.00	.00	.00	.00	.00	.00	22	19	54	6.0	22	20
14	.00	.00	.00	.00	.00	.00	22	19	26	5.6	22	3.0
15	.00	.00	.00	.00	.00	.00	22	19	27	5.3	22	3.0
16	.00	.00	.00	.00	.00	.00	22	21	27	5.0	22	2.9
17	.00	.00	.00	.00	.00	.00	22	40	27	10	22	3.0
18	.00	.00	.00	.00	.00	.00	22	67	25	36	20	3.0
19	.00	.00	.00	.00	.00	.00	22	96	.33	40	17	2.9
20	.00	.00	.00	.00	.00	.00	22	84	.00	39	17	2.9
21	.00	.00	.00	.00	.00	.00	22	84	.01	28	21	2.4
22	.00	.00	.00	.00	.00	.00	22	88	.79	17	37	.01
23	.00	.00	.00	.00	.00	.00	22	98	2.1	17	38	.00
24	.00	.00	.00	.00	.00	.00	22	108	3.6	29	40	.00
25	.00	.00	.00	.00	.00	.00	18	100	4.7	42	40	.00
26	.00	.00	.00	.00	.00	.00	.14	85	6.9	52	40	.00
27	.00	.00	.00	.00	.00	.00	.00	74	11	44	40	.00
28	.00	.00	.00	.00	.00	.00	.00	68	15	51	39	.00
29	.00	.00	.00	.00	---	.00	.00	64	16	55	39	.00
30	.00	.00	.00	.00	---	.00	.02	63	17	52	34	.00
31	.00	---	.00	.00	---	.00	---	61	---	51	24	---
TOTAL	.00	.00	.00	.00	.00	.00	292.16	1308.10	1224.43	715.8	1001	296.11
MEAN	.000	.000	.000	.000	.000	.000	9.74	42.2	40.8	23.1	32.3	9.87
MAX	.00	.00	.00	.00	.00	.00	22	108	107	55	64	28
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	5.0	17	.00
AC-FT	.00	.00	.00	.00	.00	.00	579	2590	2430	1420	1990	587

CAL YR 1977 TOTAL 1419.80 MEAN 3.89 MAX 45 MIN .00 AC-FT 2820
WTR YR 1978 TOTAL 4837.60 MEAN 13.3 MAX 108 MIN .00 AC-FT 9600

10017000 YELLOW CREEK NEAR EVANSTON, WY

LOCATION.--Lat 41°08'39", long 111°03'08", in NW¼NW¼NW¼ sec.28, T.5 N., R.8 E., Summit County, UT, Hydrologic Unit 16010101, on left bank 600 ft (183 m) downstream from Sage Creek, 1.5 mi (2.4 km) upstream from Coyote Creek, 1.8 mi (2.9 km) downstream from Barker Dam, and 9.8 mi (15.8 km) southwest of Evanston.

DRAINAGE AREA.--79.2 mi² (205.1 km²).

PERIOD OF RECORD.--October 1944 to September 1945, October 1949 to September 1978 (discontinued). Records for February 1943 to September 1944 at site 1.2 mi (1.9 km) downstream not equivalent, but would be equivalent by adding flow of Wright No. 2 and Cook Canals, in reports on Bear River Hydrometric Data, 1944 (Geological Survey open-file report).

REVISED RECORDS.--WDR UT-1974: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,920 ft (2,109 m), from river-profile map. Oct. 1, 1944, to Sept. 30, 1945, at site 500 ft (152 m) upstream, at different datums.

REMARKS.--Records good except those for winter months, which are fair. One small diversion for irrigation of hay meadows above station. Flow regulated by Barker Reservoir, capacity, 162 acre-ft (200,000 m³) since 1959.

AVERAGE DISCHARGE.--30 years (water years 1945, 1950-78), 10.4 ft³/s (0.295 m³/s), 7,530 acre-ft/yr (9.28 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 477 ft³/s (13.5 m³/s) Apr. 28, 1952, gage height, 7.04 ft (2.146 m); maximum gage height, 7.05 ft (2.149 m) Mar. 12, 1972 (backwater from ice); no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 46 ft³/s (1.30 m³/s) May 16, gage height, 4.19 ft (1.277 m); no flow on many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	9.8	25	27	5.7	.00	.00
2	.00	.00	.00	.00	.00	.00	13	28	26	5.7	.00	.00
3	.00	.00	.00	.00	.00	.00	12	26	25	8.9	.00	.00
4	.00	.00	.00	.00	.00	.00	12	24	25	8.3	.00	.00
5	.00	.00	.00	.00	.00	.00	13	24	26	7.2	.00	.00
6	.00	.00	.00	.00	.00	.00	13	25	27	6.1	.00	.00
7	.00	.00	.00	.00	.00	.00	15	25	27	5.2	.00	.00
8	.00	.00	.00	.00	.00	.00	16	26	25	3.7	.00	.00
9	.00	.00	.00	.00	.00	.00	15	26	24	2.3	.00	.00
10	.00	.00	.00	.00	.00	.00	19	24	23	1.5	.00	.00
11	.00	.00	.00	.00	.00	.00	21	24	22	1.1	.00	.00
12	.00	.00	.00	.00	.00	.00	22	24	12	.96	.00	.00
13	.00	.00	.00	.00	.00	.00	19	25	11	.62	.00	.00
14	.00	.00	.00	.00	.00	.00	17	27	12	.54	.00	.00
15	.00	.00	.00	.00	.00	.00	17	34	13	.55	.00	.00
16	.00	.00	.00	.00	.00	.00	18	42	13	.56	.00	.00
17	.00	.00	.00	.00	.00	.00	19	43	12	.53	.00	.00
18	.00	.00	.00	.00	.00	1.0	18	39	11	.50	.00	.30
19	.00	.00	.00	.00	.00	2.0	17	35	10	.98	.00	.04
20	.00	.00	.00	.00	.00	3.0	16	33	9.2	6.4	.00	.00
21	.00	.00	.00	.00	.00	4.0	16	32	8.5	5.7	.00	.00
22	.00	.00	.00	.00	.00	5.0	17	34	8.1	2.1	.00	.00
23	.00	.00	.00	.00	.00	6.0	17	37	7.5	.38	.00	.00
24	.00	.00	.00	.00	.00	7.0	17	38	7.2	.08	.00	.00
25	.00	.00	.00	.00	.00	8.0	17	36	6.8	.00	.00	.00
26	.00	.00	.00	.00	.00	9.0	18	33	6.5	.00	.00	.00
27	.00	.00	.00	.00	.00	10	18	31	6.4	.00	.00	.00
28	.00	.00	.00	.00	.00	11	19	30	6.2	.00	.00	.00
29	.00	.10	.00	.00	---	9.0	19	29	6.2	.00	.00	.00
30	.04	.23	.00	.00	---	8.1	20	28	5.9	.00	.00	.00
31	.00	---	.00	.00	---	10	---	27	---	.00	.00	---
TOTAL	.04	.33	.00	.00	.00	93.10	499.8	934	449.5	75.60	.00	.34
MEAN	.001	.011	.000	.000	.000	3.00	16.7	30.1	15.0	2.44	.000	.011
MAX	.04	.23	.00	.00	.00	11	22	43	27	8.9	.00	.30
MIN	.00	.00	.00	.00	.00	.00	9.8	24	5.9	.00	.00	.00
AC-FT	.08	.7	.00	.00	.00	185	991	1850	892	150	.00	.7

CAL YR 1977 TOTAL 307.48 MEAN .84 MAX 11 MIN .00 AC-FT 610
WTR YR 1978 TOTAL 2052.71 MEAN 5.62 MAX 43 MIN .00 AC-FT 4070

10019500 CHAPMAN CANAL AT STATE LINE, NEAR EVANSTON, WY

LOCATION.--Lat 41°24'24", long 111°02'26", in SE¼ sec.36, T.17 N., R.121 W., Uinta County, Hydrologic Unit 16010101, on left bank at highway bridge, 6.5 mi (10.5 km) downstream from headgates, and 10 mi (16 km) northwest of Evanston.

PERIOD OF RECORD.--April 1942 to current year (prior to October 1944, irrigation seasons only). Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder and flashboard control. Altitude of gage is 6,570 ft (2,003 m), from river-profile map. Prior to Oct. 11, 1946, nonrecording gage, and Oct. 11, 1946, to Aug. 2, 1961, water-stage recorder, at site 20 ft (6 m) downstream at same datum.

REMARKS.--Records fair. Canal diverts water from Bear River in NW¼ sec.36, T.16 N., R.121 W. Many diversions above station for irrigation in Wyoming. Flow at station is for storage in Neponset Reservoir, UT, and irrigation in Saleratus basin, UT.

AVERAGE DISCHARGE.--34 years (water years 1945-78), 19.9 ft^3/s (0.564 m^3/s), 14,420 acre-ft/yr (17.8 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 143 ft^3/s (4.05 m^3/s) June 24, 1970; no flow at times each year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.1	15	15	15	16	20	68	49	81	63	12	2.1
2	7.5	14	15	15	16	20	67	30	62	66	15	1.6
3	10	12	15	15	17	15	58	28	65	56	17	1.8
4	6.9	8.4	15	16	17	15	53	28	77	51	18	1.6
5	6.9	8.4	15	17	17	20	54	28	88	44	9.9	.78
6	7.8	8.4	15	18	17	20	54	29	89	45	6.3	.78
7	10	8.4	15	19	17	20	53	28	80	44	5.4	.52
8	12	14	15	20	17	25	57	29	82	40	7.2	1.8
9	12	23	15	20	17	30	63	30	91	34	7.8	4.3
10	11	20	15	20	17	25	62	30	92	30	6.9	1.1
11	9.9	19	15	20	17	25	62	30	103	28	6.0	.00
12	9.6	20	15	20	17	25	62	30	94	28	4.8	.00
13	8.7	16	15	20	17	25	65	30	77	27	5.4	2.9
14	9.0	15	15	20	17	25	67	30	78	22	13	5.4
15	8.1	13	15	20	17	20	66	30	89	19	27	7.2
16	8.7	14	15	20	17	25	69	34	109	19	26	12
17	10	15	15	20	17	35	69	33	104	14	18	13
18	10	11	15	20	17	48	66	32	88	14	17	29
19	10	10	15	20	17	58	65	34	82	17	16	32
20	7.8	10	15	20	17	51	63	40	75	19	13	30
21	9.9	10	15	19	17	43	63	40	77	17	11	30
22	12	10	15	18	17	33	66	60	75	14	6.9	28
23	12	12	15	17	17	26	64	62	69	12	8.7	26
24	11	13	15	16	17	24	61	64	69	8.4	11	24
25	10	15	15	15	18	18	62	65	83	7.2	12	21
26	8.7	15	15	15	19	30	60	61	93	11	4.8	22
27	10	15	15	15	20	56	50	54	86	16	4.6	21
28	11	15	15	15	20	43	51	56	76	13	4.6	20
29	12	15	15	15	---	47	40	75	79	12	3.4	20
30	12	15	15	15	---	62	46	83	80	11	.93	19
31	13	---	15	15	---	62	---	91	---	11	.46	---
TOTAL	302.6	409.6	465	550	483	991	1806	1343	2493	812.6	320.09	378.88
MEAN	9.76	13.7	15.0	17.7	17.3	32.0	60.2	43.3	83.1	26.2	10.3	12.6
MAX	13	23	15	20	20	62	69	91	109	66	27	32
MIN	5.1	8.4	15	15	16	15	40	28	62	7.2	.46	.00
AC-FT	600	812	922	1090	958	1970	3580	2660	4940	1610	635	752

CAL YR 1977 TOTAL 4153.42 MEAN 11.4 MAX 116 MIN .00 AC-FT 8240
WTR YR 1978 TOTAL 10354.77 MEAN 28.4 MAX 109 MIN .00 AC-FT 20540

10020100 BEAR RIVER ABOVE RESERVOIR, NEAR WOODRUFF, UT

LOCATION.--Lat 41°26'04", long 111°01'01", in NW¼NW¼ sec.29, T.17 N., R.120 W., Uinta County, WY, Hydrologic Unit 16010101, on right bank 9.3 mi (15.0 km) upstream from Woodruff Narrows Dam and 10 mi (16 km) southeast of Woodruff.

DRAINAGE AREA.--752 mi^2 (1,948 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1961 to current year.

REVISED RECORDS.--WDR UT-1974: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,455 ft (1,967.5 m), from river-profile map.

REMARKS.--Records good except those for winter months, which are fair. Diversion for irrigation of about 43,500 acres (176 km^2) above station.

AVERAGE DISCHARGE.--17 years, 238 ft^3/s (6.74 m^3/s), 172,400 acre-ft/yr (213 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,340 ft^3/s (94.6 m^3/s) June 13, 1965, gage height, 5.89 ft (1.795 m); minimum, 0.1 ft^3/s (0.003 m^3/s) Aug. 24, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,710 ft^3/s (48.4 m^3/s) June 16, gage height, 4.89 ft (1.490 m); minimum observed, 4.9 ft^3/s (0.139 m^3/s) Nov. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	20	5.0	15	20	60	656	376	838	462	19	8.7
2	9.5	16	5.0	15	20	70	571	306	753	404	20	8.0
3	12	14	5.0	15	20	80	382	279	798	330	20	7.4
4	12	17	8.0	20	20	100	288	266	968	270	21	7.0
5	12	20	10	20	20	120	279	262	1060	230	21	6.7
6	12	19	9.0	20	20	131	288	266	1090	206	17	6.4
7	19	20	9.0	20	20	121	258	250	1110	192	13	5.7
8	39	20	8.0	20	20	126	288	292	1290	170	12	6.0
9	37	13	10	20	20	156	246	376	1320	144	11	10
10	26	7.4	10	20	20	170	223	335	1490	126	11	9.5
11	20	6.4	10	20	20	167	223	330	1660	107	9.5	15
12	14	6.4	10	23	20	180	226	325	1490	109	8.7	27
13	13	6.7	10	20	15	156	220	315	1350	116	8.7	24
14	12	6.4	10	20	15	144	206	404	1430	107	12	24
15	11	6.0	10	20	15	121	202	597	1600	98	30	21
16	10	5.7	10	20	15	114	220	928	1590	89	31	17
17	12	5.7	10	20	15	118	226	935	1440	72	23	15
18	12	6.4	10	20	15	139	192	831	1180	60	17	56
19	12	5.7	10	20	15	167	183	798	987	59	15	89
20	12	5.7	10	20	15	164	161	746	922	56	14	83
21	9.0	5.2	10	20	15	126	158	760	902	54	11	76
22	13	5.0	10	20	15	153	173	844	987	48	10	72
23	15	5.0	15	20	14	170	156	980	1010	39	8.7	62
24	14	5.0	15	20	15	209	139	1130	909	33	8.3	48
25	13	5.0	15	20	20	183	142	1090	916	29	8.7	37
26	10	5.0	15	20	30	180	189	980	870	28	14	34
27	11	5.0	15	20	40	170	266	896	688	29	24	34
28	13	5.0	15	20	50	209	242	818	584	26	20	30
29	14	5.0	15	20	---	274	226	786	558	24	19	27
30	15	4.9	15	20	---	350	246	942	526	21	12	28
31	18	---	15	20	---	438	---	922	---	20	10	---
TOTAL	463.5	277.6	334.0	608	559	5066	7475	19365	32316	3758	479.6	894.4
MEAN	15.0	9.25	10.8	19.6	20.0	163	249	625	1077	121	15.5	29.8
MAX	39	20	15	23	50	438	656	1130	1660	462	31	89
MIN	9.0	4.9	5.0	15	14	60	139	250	526	20	8.3	5.7
AC-FT	919	551	662	1210	1110	10050	14830	38410	64100	7450	951	1770

CAL YR 1977 TOTAL 16083.3 MEAN 44.1 MAX 462 MIN 3.0 AC-FT 31900
WTR YR 1978 TOTAL 71596.1 MEAN 196 MAX 1660 MIN 4.9 AC-FT 142000

10020100 BEAR RIVER ABOVE RESERVOIR, NEAR WOODRUFF, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1969 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)
OCT												
13...	1130	13	--	--	7.0	200	15	48	19	17	.5	2.0
19...	1535	12	440	--	12.0	--	--	--	--	--	--	--
NOV												
30...	0920	4.9	530	--	.0	--	--	--	--	--	--	--
30...	1130	4.9	--	--	.5	250	51	53	25	14	.4	2.4
DEC												
21...	1115	A10	--	--	.0	270	14	66	25	22	.6	2.3
JAN												
12...	1015	23	475	--	.0	--	--	--	--	--	--	--
21...	1130	A20	--	--	.0	220	7	55	21	15	.4	1.5
FEB												
18...	1145	A15	--	--	.0	230	0	58	24	17	.5	1.7
23...	1730	14	500	--	.0	--	--	--	--	--	--	--
MAR												
17...	1115	93	--	--	1.5	230	15	56	22	15	.4	1.5
30...	1540	382	530	--	10.0	--	--	--	--	--	--	--
MAY												
01...	1530	404	--	--	10.0	200	20	50	19	16	.5	1.5
03...	1240	269	440	--	12.5	--	--	--	--	--	--	--
26...	1130	850	240	7.5	8.5	110	20	28	8.6	8.4	.4	1.1
JUN												
08...	1625	1280	230	--	14.5	--	--	--	--	--	--	--
19...	1145	935	220	8.1	12.0	78	0	22	5.9	25	1.2	3.8
JUL												
12...	1700	111	320	--	24.5	--	--	--	--	--	--	--
AUG												
04...	1210	21	630	8.0	19.0	260	22	57	28	27	.7	.1
16...	0855	33	600	--	12.5	--	--	--	--	--	--	--
SEP												
01...	1115	8.7	640	8.2	15.0	250	4	51	30	34	.9	4.9
19...	1515	86	500	--	9.0	--	--	--	--	--	--	--
30...	1045	29	520	8.1	10.0	240	2	56	25	22	.6	2.7

A-Daily mean discharge.

DATE	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)
OCT												
13...	220	3	180	27	15	.2	9.1	246	.33	8.63	.00	.03
19...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
30...	--	--	--	--	--	--	--	--	--	--	--	--
30...	230	6	200	34	19	.2	9.0	277	.38	3.66	.00	.01
DEC												
21...	300	6	260	37	21	.3	11	337	.46	9.10	.11	.00
JAN												
12...	--	--	--	--	--	--	--	--	--	--	--	--
21...	260	0	210	21	13	.3	15	271	.37	14.6	.11	.02
FEB												
18...	280	0	230	21	12	.2	9.7	275	.37	11.1	.05	.02
23...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
17...	250	6	220	38	12	.1	13	284	.39	71.3	.05	.09
30...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
01...	220	0	180	38	14	1.9	.1	246	.33	268	.29	.01
03...	--	--	--	--	--	--	--	--	--	--	--	--
26...	110	0	90	27	7.9	.2	3.0	140	.19	321	.09	.00
JUN												
08...	--	--	--	--	--	--	--	--	--	--	--	--
19...	160	0	130	7.5	.0	.2	4.2	147	.20	371	.20	.10
JUL												
12...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
04...	290	0	240	40	21	.3	4.2	318	.43	18.0	.02	.06
16...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
01...	300	0	250	68	13	.4	6.4	509	.69	12.0	.18	.01
19...	--	--	--	--	--	--	--	--	--	--	--	--
30...	290	0	240	30	17	.2	1.9	295	.40	23.1	.00	.03

10020200 WOODRUFF NARROWS RESERVOIR NEAR WOODRUFF, UT

LOCATION.--Lat 41°30'10", long 111°00'55", in sec.32, T.18 N., R.120 W., Uinta County, WY, Hydrologic Unit 16010101, in gate house at Woodruff Narrows Dam on Bear River, 5.6 mi (9.0 km) upstream from Wyoming-Utah State line, and 7.7 mi (12.4 km) east of Woodruff.

DRAINAGE AREA.--784 mi^2 (2,031 km^2).

PERIOD OF RECORD.--October 1965 to current year.

REVISED RECORDS.--WDR UT-1974: Drainage area.

GAGE.--Water-stage recorder and mercury manometer. Datum of gage is 6,405 ft (1,952.2 m), from levels by Bureau of Reclamation.

REMARKS.--Reservoir formed by earth-fill, rock faced dam. Lower portion of spillway cut in natural rock. Storage began Jan. 5, 1962. Total capacity, 28,000 acre-ft (34.5 hm^3) below spillway crest, which includes 18,240 acre-ft (22.5 hm^3) of Compact allocation for irrigation, 4,260 acre-ft (5.25 hm^3) of irrigation holdover, 4,000 acre-ft (4.93 hm^3) for winter release for fish propogation in Utah, and 1,500 acre-ft (1.85 hm^3) of storage for fish propogation in Wyoming. Gage height of spillway is 35.3 ft (10.76 m). Figures given herein represent total contents.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 33,080 acre-ft (40.8 hm^3) May 11, 1974, June 10, 1975, gage height, 38.3 ft (11.67 m); minimum observed, 880 acre-ft (1.09 hm^3) Sept. 15-25, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 32,180 acre-ft (39.7 hm^3) June 12, gage height, 37.8 ft (11.521 m); minimum, 980 acre-ft (1.21 hm^3) Oct. 1.

Capacity table (gage height, in feet, and total contents, in acre-feet)

4	680	16	6780	28	17770
6	1300	18	8360	30	20180
8	2080	20	10000	32	23040
10	3020	22	11600	34	25800
12	4120	24	13360	36	29000
14	5370	26	15570	38	32520

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	980	1560	1990	2800	4240	5710	14600	28100	30600	29700	17900	16600
2	980	1600	1960	2840	4300	5810	15700	28400	30400	29600	17800	16500
3	990	1640	1970	2880	4300	5910	16400	28700	30400	28900	17800	16500
4	1000	1680	1980	2930	4360	6010	16900	28700	30600	28400	17700	16400
5	1010	1720	2000	2980	4360	6160	17300	28900	30900	28100	17600	16400
6	1020	1750	2030	3030	4360	6310	17900	28900	31000	27400	17400	16200
7	1040	1780	2060	3080	4420	6460	18400	28900	31200	26000	17400	16100
8	1110	1810	2090	3130	4420	6610	18900	29000	31400	24700	17200	16100
9	1170	1830	2120	3180	4480	6760	19400	29200	31500	23800	17100	16100
10	1190	1850	2150	3230	4540	6910	19700	29200	31900	22900	17000	16000
11	1210	1870	2180	3280	4600	7060	20100	29000	32000	21900	17000	15900
12	1220	1890	2210	3330	4600	7210	20400	29200	32000	20900	16900	15900
13	1230	1910	2240	3380	4660	7360	20900	29200	31900	20100	16800	15900
14	1240	1920	2270	3430	4790	7510	21300	29200	31900	20000	16700	15800
15	1250	1930	2300	3480	4920	7660	21700	29600	32000	19800	16700	15800
16	1260	1940	2330	3520	4980	7810	22200	30200	32000	19700	16700	15800
17	1270	1950	2360	3560	5040	7960	22500	30400	31900	19500	16700	15900
18	1280	1960	2390	3600	5110	8110	22900	30400	31700	19200	16700	15900
19	1290	1970	2420	3640	5170	8360	23300	30400	31400	19000	16700	16000
20	1300	1980	2450	3680	5240	8610	23500	30200	31000	18900	16700	16100
21	1310	1990	2480	3720	5300	8950	23800	30200	31000	18900	16700	16200
22	1330	2000	2510	3760	5370	9210	24000	30400	31000	18900	16700	16200
23	1350	2010	2540	3800	5440	9650	24300	30600	31000	18800	16600	16400
24	1360	2020	2570	3840	5460	10000	24600	30900	30900	18600	16600	16500
25	1380	2030	2600	3880	5490	10400	24900	31000	30900	18500	16600	16500
26	1390	2040	2630	3920	5530	10700	25200	30900	30900	18500	16600	16500
27	1410	2040	2660	3960	5580	11000	25800	30600	30400	18400	16600	16500
28	1430	2040	2690	4000	5640	11500	26300	30600	30200	18300	16600	16500
29	1450	2050	2720	4040	---	12000	26800	30400	30100	18300	16600	16500
30	1480	2040	2740	4110	---	12600	27400	30600	29900	18100	16600	16400
31	1510	---	2770	4180	---	13300	---	30600	---	18000	16600	---
MAX	1510	2050	2770	4180	5640	13300	27400	31000	32000	29700	17900	16600
MIN	980	1560	1960	2800	4240	5710	14600	28100	29900	18000	16600	15800
(†)	(a)6.5	(a)7.9	(a)9.5	(a)12.1	(a)14.4	(a)23.9	(a)35.0	(a)36.9	(a)36.5	(a)28.2	(a)26.9	(a)26.8
(‡)	+540	+530	+730	+1410	+1460	+7660	+14100	+3200	-700	-11900	-1400	-200

CAL YR 1977 MAX 14600 MIN 880
WTR YR 1978 MAX 32000 MIN 980

† Gage height, in feet, at 2400 of last day of month.
‡ Change in contents, in acre-feet.
a Estimated.

10020300 BEAR RIVER BELOW RESERVOIR, NEAR WOODRUFF, UT

LOCATION.--Lat 41°30'20", long 111°00'50", in NW¼NW¼ sec.32, T.18 N., R.120 W., Uinta County, WY, Hydrologic Unit 16010101, on right bank 1,100 ft (340 m) downstream from Woodruff Narrows Dam, 1.6 mi (2.6 km) upstream from Salt Creek, 5.4 mi (8.7 km) upstream from Wyoming-Utah State line, and 7.7 mi (12.4 km) east of Woodruff.

DRAINAGE AREA.--784 mi^2 (2,031 km^2).

PERIOD OF RECORD.--October 1961 to current year.

REVISED RECORD.--WDR UT-1974: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 6,398.96 ft (1,950.403 m), National Geodetic Vertical Datum of 1929 (levels by Utah Water Resources Division from Bureau of Reclamation bench mark). Prior to Sept. 26, 1962, at site 175 ft (53.3 m) upstream at same datum.

REMARKS.--Records excellent. Flow regulated by Woodruff Narrows Reservoir (see sta 10020200) beginning January 1962. Diversions for irrigation of about 43,500 acres (176 km^2) above station.

AVERAGE DISCHARGE.--17 years, 232 ft^3/s (6.57 m^3/s), 168,100 acre-ft/yr (207 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,000 ft^3/s (85.0 m^3/s) June 14, 1965, gage height, 7.88 ft (2.402 m); no flow July 4, 5, 1962.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,500 ft^3/s (42.5 m^3/s) June 12, gage height, 6.54 ft (1.993 m); minimum, 1.5 ft^3/s (0.042 m^3/s) Dec. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.3	4.2	16	3.9	4.7	4.7	4.7	21	770	573	44	26
2	8.2	3.5	4.0	3.9	4.7	4.7	4.8	95	730	524	44	26
3	8.2	3.1	4.0	4.0	4.7	4.7	4.9	162	721	660	44	26
4	8.3	3.1	4.0	4.1	4.7	4.7	4.9	191	771	569	43	26
5	6.8	3.1	4.6	4.1	4.7	4.7	4.9	213	857	451	43	26
6	6.2	3.1	3.9	4.1	4.7	4.7	4.9	239	928	691	43	26
7	6.2	3.8	3.9	4.1	4.7	4.7	4.8	244	954	816	43	26
8	6.2	5.9	6.4	4.1	4.7	4.7	4.9	248	1030	805	43	26
9	6.2	5.8	3.3	4.1	4.7	4.7	4.9	283	1130	671	43	26
10	6.2	5.7	3.7	4.1	4.7	4.7	5.0	305	1260	604	42	26
11	5.9	6.0	3.7	4.2	4.7	4.7	5.0	322	1400	598	42	26
12	6.2	5.8	3.7	4.3	4.7	4.7	5.0	314	1480	594	42	25
13	6.2	6.1	3.7	4.3	4.7	4.7	5.0	304	1380	539	42	26
14	5.9	6.0	3.7	4.3	4.7	4.7	5.0	314	1340	122	42	26
15	5.9	5.5	3.7	4.3	4.7	4.7	5.1	388	1400	121	35	26
16	5.9	5.2	3.7	4.3	4.7	4.7	5.0	542	1470	121	10	26
17	5.9	4.9	3.7	4.5	4.7	4.7	5.0	748	1440	120	10	26
18	6.2	4.6	3.7	4.5	4.7	4.7	5.0	776	1330	120	10	26
19	6.2	4.2	3.7	4.5	4.7	4.7	5.2	733	1150	120	10	26
20	5.9	4.9	3.7	4.5	4.7	4.7	5.1	687	1050	94	10	26
21	5.9	4.6	3.7	4.5	4.7	4.7	5.2	664	949	46	10	26
22	5.7	4.3	3.7	4.5	4.7	4.7	5.2	683	928	46	10	26
23	5.7	5.2	3.7	4.7	4.7	4.7	5.2	744	977	46	10	26
24	5.9	4.5	3.7	4.7	4.7	4.7	5.2	840	963	46	10	26
25	5.8	4.2	3.8	4.7	5.1	4.7	5.2	921	912	46	10	26
26	5.4	4.3	3.9	4.7	4.7	4.7	5.3	892	924	45	10	26
27	4.7	5.3	3.9	4.7	4.7	4.7	5.4	851	845	45	10	27
28	4.8	4.0	3.9	4.7	4.7	4.7	5.4	783	740	45	10	26
29	4.7	13	3.9	4.7	---	4.7	5.6	730	664	45	10	26
30	4.4	24	3.9	4.7	---	4.9	5.7	748	627	44	10	26
31	4.3	---	3.9	4.8	---	4.6	---	791	---	44	20	---
TOTAL	188.3	167.9	132.8	135.6	132.0	145.8	152.5	15776	31120	9411	805	780
MEAN	6.07	5.60	4.28	4.37	4.71	4.70	5.08	509	1037	304	26.0	26.0
MAX	8.3	24	16	4.8	5.1	4.9	5.7	921	1480	816	44	27
MIN	4.3	3.1	3.3	3.9	4.7	4.6	4.7	21	627	44	10	25
AC-FT	373	333	263	269	262	289	302	31290	61730	18670	1600	1550

CAL YR 1977 TOTAL 16147.19 MEAN 44.2 MAX 1150 MIN .25 AC-FT 32030
WTR YR 1978 TOTAL 58946.90 MEAN 161 MAX 1480 MIN 3.1 AC-FT 116900

10026500 BEAR RIVER NEAR RANDOLPH, UT

LOCATION.--Lat 41°48'02", long 111°04'20", in SE¼NE¼ sec.7, T.12 N., R.8 E., Rich County, Hydrologic Unit 16010101, on left bank 3.7 mi (6.0 km) upstream from Twin Creek, 5.0 mi (8.0 km) upstream from Utah-Wyoming State line, and 11 mi (18 km) northeast of Randolph.

DRAINAGE AREA.--1,616 mi² (4,185 km²).

PERIOD OF RECORD.--October 1943 to current year. Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WDR UT-1974: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,200 ft (1,889.8 m), from river-profile map. Prior to Aug. 17, 1971, 0.2 mi (0.3 km) upstream at different datum.

REMARKS.--Records good except those for winter months, which are fair. Diversion for irrigation of about 94,500 acres (382 km²) above station. Flow regulated by upstream reservoirs.

AVERAGE DISCHARGE.--35 years, 198 ft³/s (5.61 m³/s), 143,500 acre-ft/yr (177 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,660 ft³/s (75.3 m³/s) May 8, 1952; maximum gage height, 8.99 ft (2.740 m) June 17, 1965, site and datum then in use; minimum discharge, 1.6 ft³/s (0.05 m³/s) Nov. 12, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,090 ft³/s (30.9 m³/s) June 19, gage height, 5.67 ft (1.728 m); minimum, 4.8 ft³/s (0.136 m³/s) Oct. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.9	6.8	25	16	23	31	101	29	160	318	80	33
2	6.2	6.8	24	16	25	28	78	22	208	298	70	32
3	5.6	6.5	21	16	25	28	67	13	235	264	62	16
4	5.6	6.5	20	16	28	27	61	12	293	212	59	11
5	5.6	6.5	20	16	27	27	56	12	360	231	55	24
6	5.6	12	20	16	28	28	52	14	416	222	52	27
7	6.8	28	19	16	29	28	48	15	436	212	52	27
8	6.5	18	20	16	28	29	44	18	471	235	50	28
9	5.3	17	20	16	27	29	39	36	482	261	49	28
10	4.8	18	19	17	29	30	36	37	487	251	47	28
11	5.1	27	19	18	30	30	34	21	542	244	46	31
12	5.1	29	18	19	28	30	29	17	666	235	45	29
13	5.1	22	18	20	29	30	22	16	778	229	48	31
14	5.3	24	17	20	27	32	22	18	907	220	53	33
15	5.3	19	17	20	26	34	22	17	987	220	56	53
16	5.3	19	17	20	25	36	23	21	988	178	59	37
17	5.6	22	17	20	22	38	22	24	975	148	57	40
18	5.3	20	17	20	20	44	22	28	1010	121	54	66
19	5.6	31	16	20	20	53	21	43	1070	93	52	52
20	5.9	34	16	20	22	77	21	51	1040	98	50	50
21	6.5	26	16	20	25	85	20	53	908	100	47	48
22	6.5	28	16	20	25	66	21	65	743	131	46	45
23	6.5	33	16	20	22	66	19	64	612	111	46	44
24	6.2	35	16	20	21	76	19	43	548	99	44	42
25	6.2	36	16	20	21	69	19	38	539	91	44	41
26	6.5	32	16	20	25	80	20	44	538	82	43	40
27	6.2	38	16	20	25	104	18	65	488	72	43	41
28	6.2	28	16	20	28	126	17	85	421	49	39	40
29	6.5	27	16	20	---	109	16	116	400	48	36	40
30	7.2	26	16	21	---	100	21	130	365	66	34	40
31	7.2	---	16	22	---	88	---	130	---	85	33	---
TOTAL	183.2	682.1	556	581	710	1658	1010	1297	18073	5224	1551	1097
MEAN	5.91	22.7	17.9	18.7	25.4	53.5	33.7	41.8	602	169	50.0	36.6
MAX	7.2	38	25	22	30	126	101	130	1070	318	80	66
MIN	4.8	6.5	16	16	20	27	16	12	160	48	33	11
AC-FT	363	1350	1100	1150	1410	3290	2000	2570	35850	10360	3080	2180

CAL YR 1977 TOTAL 6798.0 MEAN 18.6 MAX 157 MIN 3.6 AC-FT 13480
WTR YR 1978 TOTAL 32622.3 MEAN 89.4 MAX 1970 MIN 4.8 AC-FT 64710

10027000 TWIN CREEK AT SAGE, WY

LOCATION.--Lat 41°48'36", long 110°58'12", in NE¼SW¼SE¼ sec.7, T.21 N., R.119 W., Lincoln County, Hydrologic Unit 16010101, on right bank 0.5 mi (0.8 km) downstream from Bulldog Hollow, 0.5 mi (0.8 km) southwest of Sage, 0.8 mi (1.3 km) southeast of junction of U.S. Highway 30 and State Highway 89, and 5.0 mi (8.0 km) upstream from mouth.

DRAINAGE AREA.--246 mi^2 (637 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1943 to September 1962, July 1976 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,320 ft (1,926 m), from topographic map. Prior to Oct. 1, 1945, nonrecording gage at site 0.8 mi (1.3 km) upstream at different datum. Oct. 1, 1945, to Sept. 30, 1962, water-stage recorder at site 0.2 mi (0.3 km) upstream at different datum.

REMARKS.--Records good except theose for winter months, which are poor. Diversions for irrigation of about 1,100 acres (4.45 km^2) above station.

AVERAGE DISCHARGE.--21 years (water years 1944-62, 1977-78), 17.9 ft^3/s (0.507 m^3/s), 12,970 acre-ft/yr (16.0 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 649 ft^3/s (18.4 m^3/s) Mar. 18, 1947, gage height, 6.08 ft (1.853 m), site and datum then in use; minimum daily, 0.6 ft^3/s (0.02 m^3/s) Mar. 18, 1953, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 320 ft^3/s (9.06 m^3/s) Apr. 1, gage height, 4.98 ft (1.518 m); maximum gage height, 5.07 ft (1.545 m) Apr. 1 (backwater from tree); minimum daily discharge, 3.2 ft^3/s (0.091 m^3/s) Oct. 5, Aug. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.3	5.7	4.2	5.3	4.3	5.4	259	73	29	11	6.8	4.7
2	4.3	5.7	4.5	5.0	4.0	5.4	124	44	28	9.7	6.5	4.7
3	3.9	5.7	5.2	4.8	4.5	5.4	58	37	41	9.3	6.5	4.7
4	3.7	5.7	5.7	4.6	4.3	5.1	38	30	84	9.3	6.2	4.7
5	3.2	5.7	5.6	5.2	3.9	6.5	41	29	162	8.6	5.9	4.7
6	4.0	5.4	5.4	4.9	4.0	7.3	32	38	68	9.0	5.4	4.9
7	5.1	5.7	4.9	4.5	4.1	8.0	32	44	42	9.3	5.4	5.1
8	5.1	4.9	4.4	4.0	4.2	7.8	42	80	32	9.3	5.4	5.1
9	4.7	3.7	3.9	4.2	4.1	8.2	36	87	29	9.0	5.4	5.1
10	4.5	4.0	4.1	4.3	3.9	9.4	30	66	27	8.6	4.0	5.1
11	4.5	5.0	4.4	4.5	4.1	10	27	61	27	9.0	3.6	5.7
12	4.5	5.8	4.4	4.7	4.4	11	23	56	25	10	3.2	6.5
13	4.5	5.8	4.9	4.4	4.3	9.9	18	45	23	10	4.0	6.2
14	4.3	6.0	5.8	4.3	4.2	8.0	17	44	21	9.0	9.7	5.9
15	4.0	6.6	6.0	4.2	4.2	7.6	21	44	20	8.3	12	6.2
16	4.0	6.6	6.0	4.3	4.0	8.0	21	47	18	9.0	11	6.2
17	4.0	4.9	5.8	4.3	3.8	9.0	18	53	18	8.6	5.4	6.8
18	4.3	4.9	5.6	4.2	3.6	12	15	61	18	8.6	4.9	32
19	4.5	4.8	5.2	4.2	3.7	20	14	67	18	8.6	4.9	18
20	4.7	4.7	4.9	4.0	3.8	34	14	54	17	8.6	4.9	15
21	5.1	4.4	4.9	3.8	4.0	25	14	48	17	9.3	5.1	15
22	5.4	4.4	4.9	3.7	4.4	20	14	48	15	10	5.1	12
23	4.9	4.7	4.9	3.6	4.5	36	13	39	14	10	4.9	9.7
24	4.9	5.0	4.9	3.5	4.8	118	13	38	14	9.0	4.3	8.6
25	4.9	5.3	5.4	3.6	5.5	142	13	36	13	6.5	4.7	8.3
26	4.9	5.6	5.7	3.9	6.0	158	17	32	12	7.1	4.9	7.3
27	5.7	5.2	4.5	4.1	6.0	189	23	32	12	6.5	5.7	6.8
28	5.1	4.9	4.3	4.0	5.6	192	25	32	11	6.2	5.1	7.1
29	5.4	4.6	4.7	3.8	---	175	23	31	11	6.5	5.1	7.1
30	6.2	4.3	5.0	4.0	---	174	33	32	12	6.8	4.9	6.8
31	6.2	---	5.5	3.4	---	175	---	32	---	6.5	4.7	---
TOTAL	144.8	155.7	155.6	131.3	122.2	1602.0	1068	1460	878	267.2	175.6	246.0
MEAN	4.67	5.19	5.02	4.24	4.36	51.7	35.6	47.1	29.3	8.62	5.66	8.20
MAX	6.2	6.6	6.0	5.3	6.0	192	259	87	162	11	12	32
MIN	3.2	3.7	3.9	3.4	3.6	5.1	13	29	11	6.2	3.2	4.7
AC-FT	287	309	309	260	242	3180	2120	2900	1740	530	348	488

CAL YR 1977 TOTAL 2270.4 MEAN 6.22 MAX 28 MIN 2.7 AC-FT 4500
WTR YR 1978 TOTAL 6406.4 MEAN 17.6 MAX 259 MIN 3.2 AC-FT 12710

10027000 TWIN CREEK AT SAGE, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	UXYGEN, DISSOLVED (MG/L)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACU3)	CALCIUM DISSOLVED (MG/L AS CA)
UCT												
04...	1300	3.6	840	--	10.0	20	--	--	--	--	--	--
13...	1310	4.7	800	8.2	7.0	20	10.0	2.6	K8	400	200	85
NOV												
01...	1245	8.6	730	--	1.0	15	--	--	--	--	--	--
30...	1215	3.8	850	--	1.0	10	--	--	--	--	--	--
30...	1330	3.5	840	8.0	2.0	9	10.5	3.0	21	430	200	100
DEC												
21...	1230	A4.4	950	8.0	.0	10	10.8	2.2	26	480	220	110
29...	1130	4.9	700	--	.0	10	--	--	--	--	--	--
JAN												
21...	1245	A3.8	860	8.1	.5	10	--	1.8	33	400	190	94
30...	1105	4.9	800	--	.0	10	--	--	--	--	--	--
FEB												
18...	1300	A3.6	800	8.0	.0	8	11.0	.6	K3	480	220	110
MAR												
06...	1120	7.3	670	--	1.0	10	--	--	--	--	--	--
17...	1300	A9.0	980	8.0	1.5	25	10.5	1.8	K2	420	190	92
20...	1715	65	370	--	3.5	1800	--	--	--	--	--	--
30...	1230	110	580	--	4.5	1100	--	--	--	--	--	--
APR												
01...	0820	301	460	--	4.5	2000	--	--	--	--	--	--
01...	1215	281	500	--	5.0	1600	--	--	--	--	--	--
05...	1410	49	950	--	7.0	280	--	--	--	--	--	--
MAY												
01...	1120	93	900	--	6.5	850	--	--	--	--	--	--
01...	1300	81	1050	8.3	6.0	700	10.2	5.9	220	380	160	78
10...	1625	63	900	--	11.0	380	--	--	--	--	--	--
22...	1140	48	790	--	13.0	100	--	--	--	--	--	--
26...	1300	32	730	8.2	11.0	55	9.3	3.2	K130	360	94	80
JUN												
06...	1640	58	700	--	17.0	300	--	--	--	--	--	--
19...	1300	18	850	8.3	15.0	25	9.5	3.0	150	380	130	80
JUL												
11...	1630	11	850	--	21.0	15	--	--	--	--	--	--
AUG												
04...	1255	6.8	900	--	18.0	6	--	--	--	--	--	--
04...	1355	6.8	890	7.9	19.0	10	9.9	2.7	92	340	170	69
SEP												
01...	1230	5.1	800	8.2	18.0	15	10.2	2.6	58	370	170	77
06...	1520	5.1	760	--	19.0	8	--	--	--	--	--	--
30...	1200	6.8	980	8.2	8.5	20	9.9	2.3	78	390	170	86

A-Daily mean discharge.

K-Results based on colony count outside the acceptable range (non-ideal colony count).

10027000 TWIN CREEK AT SAGE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
OCT												
04...	--	--	--	--	--	--	--	--	--	--	--	--
13...	46	48	1.0	4.0	250	0	210	230	34	.4	9.6	581
NOV												
01...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
30...	44	53	1.1	3.8	280	0	230	290	35	.5	11	676
DEC												
21...	49	53	1.1	4.1	310	0	250	280	35	.5	12	697
29...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
21...	40	40	.9	3.1	260	0	210	220	40	.5	9.7	576
30...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
18...	50	54	1.1	3.5	320	0	260	250	41	.5	12	679
MAR												
06...	--	--	--	--	--	--	--	--	--	--	--	--
17...	46	56	1.2	4.0	280	0	230	240	38	.5	9.4	624
20...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
01...	--	--	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
01...	--	--	--	--	--	--	--	--	--	--	--	--
01...	45	92	2.1	4.8	270	0	220	270	43	.4	9.5	676
10...	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--
26...	38	41	.9	3.9	270	0	260	320	22	.4	10	503
JUN												
06...	--	--	--	--	--	--	--	--	--	--	--	--
19...	43	44	1.0	3.6	300	0	250	180	37	.4	12	548
JUL												
11...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
04...	--	--	--	--	--	--	--	--	--	--	--	--
04...	41	55	1.3	3.9	210	0	170	220	42	.4	6.0	541
SEP												
01...	44	52	1.2	3.9	250	0	210	210	47	.4	7.9	566
06...	--	--	--	--	--	--	--	--	--	--	--	--
30...	43	61	1.3	3.7	270	0	220	260	39	.4	7.9	634

10027000 TWIN CREEK AT SAGE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS NO3)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C)
OCT												
04...	--	--	--	--	--	--	--	--	--	--	--	--
13...	.79	7.37	--	.21	.04	.34	.38	.59	2.6	.03	2.3	.6
NOV												
01...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
30...	.92	6.39	--	.07	.10	.30	.40	.47	2.1	.01	--	--
DEC												
21...	.95	8.28	--	.22	.12	.09	.21	.43	1.9	.02	--	--
29...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
21...	.78	5.91	--	.06	.00	.00	.00	.06	.27	.03	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
18...	.92	6.60	--	.17	.08	.13	.21	.38	1.7	.03	--	--
MAR												
06...	--	--	--	--	--	--	--	--	--	--	--	--
17...	.85	15.2	--	.38	.06	.24	.30	.68	3.0	.07	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
01...	--	--	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
01...	--	--	--	--	--	--	--	--	--	--	--	--
01...	.92	148	--	.35	.08	2.8	2.9	3.3	14	2.2	9.3	--
10...	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--
26...	.68	43.5	.38	.05	.05	2.8	2.9	2.9	13	.10	--	--
JUN												
06...	--	--	--	--	--	--	--	--	--	--	--	--
19...	.75	26.6	--	.04	.08	.53	.61	.65	2.9	.04	--	--
JUL												
11...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
04...	--	--	--	--	--	--	--	--	--	--	--	--
04...	.74	9.93	--	.05	.01	.74	.75	.80	3.5	.01	--	--
SEP												
01...	.77	7.79	--	.03	.05	.50	.55	.58	2.6	.04	--	--
06...	--	--	--	--	--	--	--	--	--	--	--	--
30...	.86	11.6	--	.02	.01	.32	.33	.35	1.6	.04	--	--

DATE	TIME	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)	ALUM-INUM, SUS-PENDED RECOV. (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS-PENDED TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE)	BERYL-LIUM, SUS-PENDED RECOV. (UG/L AS BE)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)
OCT												
13...	1310	420	410	10	1	0	2	0	0	10	110	10
NOV												
30...	1330	--	--	--	--	--	--	--	--	--	120	--
DEC												
21...	1230	--	--	--	--	--	--	--	--	--	130	--
JAN												
21...	1245	--	--	--	--	--	--	--	--	--	110	--
FEB												
18...	1300	--	--	--	--	--	--	--	--	--	110	--
MAR												
17...	1300	--	--	--	--	--	--	--	--	--	120	--
MAY												
01...	1300	18000	--	50	6	4	2	0	0	10	130	3
26...	1300	--	--	--	--	--	--	--	--	--	90	--
JUN												
19...	1300	--	--	--	--	--	--	--	--	--	90	--
AUG												
04...	1355	--	--	--	--	--	--	--	--	--	120	--
SEP												
01...	1230	--	--	--	--	--	--	--	--	--	120	--
30...	1200	--	--	--	--	--	--	--	--	--	120	--

10027000 TWIN CREEK AT SAGE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	CADMIUM SUS-PENDED RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, SUS-PENDED RECOV. (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, SUS-PENDED RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB)
OCT												
13...	0	12	10	0	10	<10	<8	2	460	30	<100	<80
NOV												
30...	--	--	--	--	--	--	--	--	--	70	--	--
DEC												
21...	--	--	--	--	--	--	--	--	--	130	--	--
JAN												
21...	--	--	--	--	--	--	--	--	--	100	--	--
FEB												
18...	--	--	--	--	--	--	--	--	--	50	--	--
MAR												
17...	--	--	--	--	--	--	--	--	--	110	--	--
MAY												
01...	0	4	20	15	5	50	46	4	21000	20	25	19
26...	--	--	--	--	--	--	--	--	--	200	--	--
JUN												
19...	--	--	--	--	--	--	--	--	--	180	--	--
AUG												
04...	--	--	--	--	--	--	--	--	--	210	--	--
SEP												
01...	--	--	--	--	--	--	--	--	--	410	--	--
30...	--	--	--	--	--	--	--	--	--	210	--	--

DATE	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)	LITHIUM SUS-PENDED RECOV-ERABLE (UG/L AS LI)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO)	MOLYB-DENUM, SUS-PENDED RECOV. (UG/L AS MO)
OCT												
13...	20	50	10	40	30	20	10	.0	.0	.0	6	3
NOV												
30...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
21...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
21...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
18...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
17...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
01...	6	100	40	60	890	840	50	.0	.0	.0	7	0
26...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
19...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
04...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
01...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--

10027000 TWIN CREEK AT SAGE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, SUS-PENDED RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, SUS-PENDED TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT											
13...	3	<50	<47	3	1	0	1	.7	10	0	20
NOV											
30...	--	--	--	--	--	--	--	--	--	--	--
DEC											
21...	--	--	--	--	--	--	--	--	--	--	--
JAN											
21...	--	--	--	--	--	--	--	--	--	--	--
FEB											
18...	--	--	--	--	--	--	--	--	--	--	--
MAR											
17...	--	--	--	--	--	--	--	--	--	--	--
MAY											
01...	9	16	12	4	2	1	1	2.0	160	140	20
26...	--	--	--	--	--	--	--	--	--	--	--
JUN											
19...	--	--	--	--	--	--	--	--	--	--	--
AUG											
04...	--	--	--	--	--	--	--	--	--	--	--
SEP											
01...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--

DATE	TIME	TEMPER-ATURE (DEG C)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. FALL DIAM. % FINER THAN .500 MM
OCT											
04...	1300	10.0	3.6	47	.46	--	--	--	--	--	--
NOV											
01...	1245	1.0	8.6	66	1.5	--	--	--	--	--	--
30...	1215	1.0	3.8	48	.49	--	--	--	--	--	--
DEC											
29...	1130	.0	4.9	65	.86	--	--	--	--	--	--
JAN											
30...	1105	.0	4.9	34	.45	--	--	--	--	--	--
MAR											
06...	1120	1.0	7.3	48	.95	--	--	--	--	--	--
20...	1715	3.5	65	8180	1440	43	69	98	100	--	--
30...	1230	4.5	110	2800	832	60	74	94	99	100	--
APR											
01...	0820	4.5	301	5520	4490	59	77	92	96	99	100
01...	1215	5.0	281	4260	3230	60	76	92	97	100	--
05...	1410	7.0	49	776	103	--	--	--	--	--	--
MAY											
01...	1120	6.5	93	2420	608	--	--	--	--	--	--
10...	1625	11.0	63	934	159	--	--	--	--	--	--
22...	1140	13.0	48	309	40	--	--	--	--	--	--
JUN											
06...	1640	17.0	58	832	130	--	--	--	--	--	--
JUL											
11...	1630	21.0	11	70	2.1	--	--	--	--	--	--
AUG											
04...	1255	18.0	6.8	36	.66	--	--	--	--	--	--
SEP											
06...	1520	19.0	5.1	31	.43	--	--	--	--	--	--

DATE	TIME	TEMPER-ATURE (DEG C)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	NUMBER OF SAM-PLING POINTS	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM
SEP								
06...	1520	19.0	5.1	10	6	19	43	48

DATE	BED MAT. FALL DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 128 MM
SEP								
06...	49	50	50	56	70	86	94	100

10028500 BEAR RIVER BELOW PIXLEY DAM, NEAR COKEVILLE, WY

LOCATION.--Lat 41°56'20", long 110°59'05", in SE¼SE¼ sec.25, T.23 N., R.120 W., Lincoln County, Hydrologic Unit 16010102, 800 ft (243 m) downstream from Pixley Dam, 11 mi (18 km) south of Cokeville, and 17.5 mi (28.2 km) downstream from Twin Creek.

DRAINAGE AREA.--2,032 mi² (5,263 km²).

PERIOD OF RECORD.--October 1941 to November 1943 (published as Bear River near Cokeville), October 1952 to September 1956, May 1958 to current year (irrigation seasons only). Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WDR UT-1974: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,185 ft (1,885.2 m), from river-profile map. Oct. 31, 1941, to Nov. 30, 1943, at site 200 ft (61 m) downstream at different datum.

REMARKS.--Records good. Natural flow of stream affected by diversions for irrigation, return flow from irrigated areas, and regulation by upstream reservoirs.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 2,300 ft³/s (65.1 m³/s) Mar. 25, 1956; minimum daily recorded, 0.3 ft³/s (0.008 m³/s) Aug. 21, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 603 ft³/s (17.1 m³/s) June 21; minimum daily, 2.4 ft³/s (0.068 m³/s) May 3, 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								3.1	13	191	109	40
2								2.8	18	162	108	39
3								2.4	45	174	92	37
4								2.4	74	163	80	24
5								3.8	124	151	73	19
6								5.9	218	146	67	29
7								7.2	340	131	64	35
8								7.7	367	116	63	36
9								8.2	392	116	62	34
10								9.5	394	252	60	34
11								11	400	266	57	36
12								8.6	417	283	56	37
13								8.2	441	272	60	36
14								8.2	467	298	73	37
15								8.2	489	345	72	41
16								7.2	508	322	73	57
17								6.8	533	294	75	48
18								5.9	559	279	72	65
19								5.9	579	203	68	88
20								6.8	597	176	64	77
21								6.3	603	173	60	75
22								5.4	590	168	57	74
23								5.1	522	176	54	69
24								5.1	441	160	54	68
25								7.7	405	144	51	65
26								8.2	390	151	50	62
27								7.2	386	168	50	61
28								6.8	362	105	50	60
29								7.2	313	79	46	50
30								8.2	294	84	44	40
31								11	---	102	41	---
TOTAL	---	---	---	---	---	---	---	208.0	11281	5850	2005	1473
MEAN	---	---	---	---	---	---	---	6.71	376	189	64.7	49.1
MAX	---	---	---	---	---	---	---	11	603	345	109	88
MIN	---	---	---	---	---	---	---	2.4	13	79	41	19
AC-FT	---	---	---	---	---	---	---	413	22380	11600	3980	2920

THE SEASON AC-FT 41293

10032000 SMITHS FORK NEAR BORDER, WY

LOCATION.--Lat 42°17'16", long 110°52'14", in NW¼ sec.33, T.27 N., R.118 W., Lincoln County, Hdyrologic Unit 16010102, on left bank 4.5 mi (7.2 km) upstream from Howland Creek, 6 mi (10 km) downstream from Hobble Creek, and 12 mi (19 km) northeast of Border.

DRAINAGE AREA.--165 mi^2 (427 km^2).

PERIOD OF RECORD.--May 1942 to current year.

REVISED RECORDS.--WSP 1734: 1952(M).

GAGE.--Water-stage recorder. Altitude of gage is 6,680 ft (2,036 m), from topographic map. Prior to Oct. 16, 1945, at site 0.8 mi (1.3 km) downstream at different datum.

REMARKS.--Records good except those for winter periods, which are fair. One diversion for irrigation of about 200 acres (809,000 m^2) above station.

AVERAGE DISCHARGE.--36 years, 197 ft^3/s (5.58 m^3/s), 142,700 acre-ft/yr (176 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,610 ft^3/s (45.6 m^3/s) June 18, 1971, gage height, 5.61 ft (1.710 m); minimum, 21 ft^3/s (0.59 m^3/s) Mar. 29, 1975, Jan. 24, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,240 ft^3/s (35.1 m^3/s) June 10, gage height, 4.88 ft (1.487 m); minimum, 21 ft^3/s (0.595 m^3/s) Jan. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	49	55	50	50	45	132	391	741	809	277	155
2	52	50	59	50	50	42	135	442	735	783	261	151
3	51	50	54	50	49	42	118	533	755	761	250	149
4	51	50	50	50	51	43	113	534	785	735	236	145
5	50	50	50	50	50	43	111	463	848	695	228	144
6	54	51	50	51	48	43	106	425	919	660	220	142
7	62	50	50	49	48	41	112	412	1020	629	214	140
8	56	49	50	50	46	41	128	385	1070	608	206	143
9	54	52	50	50	47	42	150	368	1180	600	201	139
10	53	55	50	50	46	43	168	414	1220	583	197	137
11	52	52	52	52	47	43	185	486	1100	563	195	144
12	50	48	53	56	45	44	179	479	999	546	192	142
13	51	47	54	57	45	44	178	513	998	518	212	141
14	50	48	54	56	45	43	175	665	1120	492	248	137
15	50	49	58	57	45	43	175	862	1200	472	237	133
16	50	48	54	55	45	39	198	978	1190	455	211	128
17	49	47	50	55	45	43	181	810	1100	439	203	142
18	49	48	50	52	45	45	166	710	1020	417	199	155
19	49	49	50	56	47	47	165	629	980	391	193	141
20	50	50	50	52	50	49	177	624	943	374	188	140
21	50	50	50	50	51	52	190	723	944	376	184	135
22	49	50	50	50	52	57	180	782	983	357	185	137
23	49	50	50	50	54	59	174	911	1010	334	179	134
24	49	50	50	50	56	59	174	958	993	327	174	130
25	49	50	50	50	50	55	204	903	992	322	171	125
26	48	55	50	50	49	56	304	866	937	311	168	123
27	48	60	50	48	49	59	366	832	876	295	166	121
28	48	55	50	50	48	66	366	818	847	291	162	119
29	50	53	50	50	---	75	359	869	848	301	161	118
30	53	55	50	50	---	87	429	874	836	287	158	117
31	51	---	50	50	---	102	---	799	---	274	158	---
TOTAL	1580	1520	1593	1596	1353	1592	5798	20458	29189	15005	6234	4107
MEAN	51.0	50.7	51.4	51.5	48.3	51.4	193	660	973	484	201	137
MAX	62	60	59	57	56	102	429	978	1220	809	277	155
MIN	48	47	50	48	45	39	106	368	735	274	158	117
AC-FT	3130	3010	3160	3170	2680	3160	11500	40580	57900	29760	12370	8150

CAL YR 1977 TOTAL 23579 MEAN 64.6 MAX 123 MIN 47 AC-FT 46770
WTR YR 1978 TOTAL 90025 MEAN 247 MAX 1220 MIN 39 AC-FT 178600

10038000 BEAR RIVER BELOW SMITHS FORK, NEAR COKEVILLE, WY

LOCATION.--Lat 42°07'36", long 110°58'21", in SE¼NE¼ sec.28, T.25 N., R.119 W., Lincoln County, Hydrologic Unit 16010102, on left bank 1.1 mi (1.8 km) upstream from Wyman Dam, 2.8 mi (4.5 km) northwest of Cokeville, and 3.8 mi (6.1 km) downstream from Smiths Fork.

DRAINAGE AREA.--2,447 mi^2 (6,338 km^2).

PERIOD OF RECORD.--April 1954 to current year.

REVISED RECORDS.--WDR UT-1974: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,140 ft (1,871 m), from river-profile map.

REMARKS.--Records good except those for winter periods, which are fair. Natural flow of stream affected by diversion for irrigation, return flow from irrigated areas, and regulation by upstream reservoirs.

AVERAGE DISCHARGE.--24 years, 430 ft^3/s (12.2 m^3/s), 311,500 acre-ft/yr (384 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,780 ft^3/s (107 m^3/s) Mar. 26, 1956, gage height, 7.54 ft (2.298 m); minimum, 31 ft^3/s (0.878 m^3/s) Oct. 4, 5, 6, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,840 ft^3/s (52.1 m^3/s) June 17, gage height, 5.87 ft (1.789 m); minimum, 31 ft^3/s (0.878 m^3/s) Oct. 4, 5, 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	77	96	90	95	111	606	593	890	1150	351	198
2	38	82	88	90	95	118	606	571	842	1010	339	190
3	37	80	98	91	96	114	530	639	844	1020	327	188
4	32	80	114	94	101	114	439	695	905	1090	309	189
5	31	80	110	91	112	124	411	660	970	1000	300	180
6	34	82	110	89	121	129	376	617	1130	942	293	170
7	43	78	105	90	118	118	357	561	1410	894	283	183
8	42	77	100	90	124	111	359	529	1600	836	276	192
9	38	78	100	90	116	109	359	503	1630	803	267	186
10	39	85	99	91	124	112	364	562	1720	829	247	184
11	37	83	100	92	121	117	383	670	1720	876	243	197
12	38	90	100	94	116	121	365	731	1630	885	239	206
13	41	90	100	101	109	122	354	697	1580	886	259	209
14	78	96	105	102	100	123	359	776	1630	881	320	204
15	69	95	100	100	99	116	358	886	1730	922	321	212
16	59	93	100	101	100	110	372	1020	1810	905	307	224
17	57	80	100	101	97	111	372	1100	1820	775	299	245
18	64	81	100	99	104	118	334	1010	1810	740	296	302
19	66	77	100	100	103	124	323	899	1800	673	285	291
20	68	74	100	100	116	137	314	812	1770	572	278	300
21	73	70	100	98	117	170	330	853	1770	537	270	279
22	75	70	93	97	111	210	322	911	1760	501	266	269
23	73	77	89	95	121	248	297	985	1740	483	265	257
24	73	83	88	94	121	255	282	1070	1600	467	254	253
25	66	87	84	83	121	269	300	1070	1520	447	250	245
26	68	86	85	95	121	250	404	1030	1480	424	240	238
27	63	90	85	97	121	279	525	994	1410	450	238	230
28	66	94	85	95	118	348	508	974	1330	401	239	223
29	68	88	81	95	---	385	459	973	1260	360	235	219
30	73	90	88	95	---	468	540	996	1210	339	222	205
31	77	---	90	95	---	530	---	967	---	335	214	---
TOTAL	1725	2493	2993	2935	3118	5771	11908	25354	44321	22433	8532	6668
MEAN	55.6	83.1	96.5	94.7	111	186	397	818	1477	724	275	222
MAX	78	96	114	102	124	530	606	1100	1820	1150	351	302
MIN	31	70	81	83	95	109	282	503	842	335	214	170
AC-FT	3420	4940	5940	5820	6180	11450	23620	50290	87910	44500	16920	13230

CAL YR 1977 TOTAL 33065 MEAN 90.6 MAX 169 MIN 31 AC-FT 65580
WTR YR 1978 TOTAL 138251 MEAN 379 MAX 1820 MIN 31 AC-FT 274200

10039500 BEAR RIVER AT BORDER, WY

LOCATION.--Lat 42°12'40", long 111°03'11", in NE¼NE¼ sec.15, T.14 S., R.46 E., Bear Lake County, ID, Hydrologic Unit 16010102, on left bank 0.2 mi (0.3 km) west of Idaho-Wyoming State line, 0.5 mi (0.8 km) west of Border, and 2.1 mi (3.4 km) upstream from Thomas Fork.

DRAINAGE AREA.--2,486 mi² (6,439 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1937 to current year.

REVISED RECORDS.--WDR UT-1974: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6,051.63 ft (1,844.537 m), National Geodetic Vertical Datum of 1929, unadjusted.

REMARKS.--Records good except those for winter months, which are fair. Natural flow of stream affected by regulation by upstream reservoirs, diversions for irrigation, and return flow from irrigated areas.

AVERAGE DISCHARGE.--41 years, 423 ft³/s (12.0 m³/s), 306,500 acre-ft/yr (378 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,680 ft³/s (104 m³/s) May 11, 1952, gage height, 8.89 ft (2.710 m); minimum, 24 ft³/s (0.68 m³/s) Apr. 29, 30, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,880 ft³/s (53.2 m³/s) June 23, gage height, 6.12 ft (1.865 m); minimum, 30 ft³/s (0.850 m³/s) Oct. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	66	99	110	120	125	567	603	904	1140	348	192
2	34	70	100	110	120	125	616	577	811	1000	339	187
3	35	75	100	110	120	125	574	626	793	984	327	185
4	34	74	100	110	120	125	484	686	814	1050	310	183
5	31	74	100	110	120	125	459	704	868	1020	298	181
6	33	77	100	110	120	126	402	659	952	952	288	169
7	36	77	100	110	120	117	373	603	1170	900	276	174
8	42	75	100	110	120	111	381	583	1540	833	276	185
9	40	73	100	110	120	110	381	545	1640	754	264	183
10	39	75	100	120	120	116	386	548	1750	743	252	183
11	39	75	100	120	120	120	405	659	1760	818	247	190
12	38	77	100	120	120	123	397	718	1740	814	245	199
13	39	75	110	118	120	125	383	700	1650	830	262	201
14	61	75	110	120	120	127	386	740	1640	849	305	199
15	84	75	110	120	120	122	386	833	1660	872	315	198
16	68	75	110	120	120	116	397	1030	1750	888	312	207
17	64	75	110	120	120	116	413	1140	1840	784	298	225
18	67	75	110	120	120	117	373	1030	1850	715	303	283
19	72	75	110	120	120	123	351	960	1860	673	293	293
20	72	74	110	120	125	131	351	849	1840	596	291	302
21	72	80	110	120	125	153	360	826	1840	551	281	288
22	73	90	110	120	125	187	360	880	1860	523	281	274
23	73	90	110	120	125	219	339	1000	1850	467	271	262
24	72	95	110	120	125	234	322	1050	1710	459	271	255
25	69	95	110	120	125	250	319	1080	1580	452	252	245
26	31	100	110	120	125	234	383	1060	1520	428	232	238
27	30	100	110	120	125	250	529	1030	1460	428	225	230
28	34	100	110	120	125	298	500	1010	1350	413	223	225
29	56	100	110	120	---	355	481	992	1270	378	223	223
30	61	100	110	120	---	419	539	1030	1200	353	213	213
31	64	---	110	120	---	497	---	1000	---	343	209	---
TOTAL	1593	2437	3289	3628	3405	5521	12597	25751	44472	22030	8530	6572
MEAN	51.4	81.2	106	117	122	178	420	831	1482	711	275	219
MAX	84	100	110	120	125	497	616	1140	1860	1140	348	302
MIN	30	66	99	110	120	110	319	545	793	343	209	169
AC-FT	3160	4830	6520	7200	6750	10950	24990	51080	88210	43700	16920	13040

CAL YR 1977 TOTAL 29690 MEAN 81.3 MAX 163 MIN 25 AC-FT 58890
WTR YR 1978 TOTAL 139825 MEAN 383 MAX 1860 MIN 30 AC-FT 277300

10039500 BEAR RIVER AT BORDER, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: January to September 1978.
WATER TEMPERATURES: January to September 1978.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum daily, 640 micromhos Mar. 28; minimum daily, 388 micromhos May 24.
WATER TEMPERATURES: Maximum, 21.5°C Aug. 4; minimum, 0.0°C Feb. 21-24.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, (COLS. PER 100 ML)
OCT										
13...	1545	39	540	--	11.0	2	--	10.0	44	--
21...	1020	71	660	--	7.5	--	--	--	--	--
NOV										
30...	1530	135	500	--	.5	4	--	10.6	42	--
DEC										
01...	1540	99	630	--	.0	--	--	--	--	--
21...	1500	A140	620	--	.0	3	--	11.2	3	--
JAN										
13...	1350	118	600	--	.0	--	--	--	--	--
21...	1500	A147	570	8.1	.0	2	--	--	K3	26
FEB										
18...	1515	A175	490	8.1	.0	2	--	11.0	K4	K7
MAR										
06...	1710	126	540	--	2.0	--	--	--	--	--
17...	1500	56	580	8.1	4.0	5	--	11.4	K2	23
APR										
04...	1625	469	620	--	9.0	--	--	--	--	--
MAY										
01...	1000	758	470	8.1	4.0	120	--	10.4	90	K480
09...	2115	534	520	--	12.5	--	--	--	--	--
26...	1430	1200	410	8.0	10.0	40	50	9.2	K110	K80
JUN										
06...	1005	930	450	--	13.0	--	--	--	--	--
15...	1700	1680	500	--	17.0	--	--	--	--	--
19...	1500	1860	540	8.1	15.0	50	55	8.0	240	490
JUL										
14...	1240	838	530	--	18.5	--	--	--	--	--
AUG										
04...	1515	336	620	8.1	20.0	15	9.4	10.3	K80	K820
17...	1625	298	550	--	13.5	--	--	--	--	--
SEP										
01...	1440	194	500	8.1	20.0	6	3.8	8.9	44	K22
22...	1005	276	550	--	7.0	--	--	--	--	--
30...	1330	217	550	8.2	12.0	7	4.1	9.5	K8	K11

A-Daily mean discharge.
K-Results based on colony count outside the acceptable range (non-ideal colony count).

10039500 BEAR RIVER AT BORDER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)
OCT										
13...	260	56	64	25	28	.8	1.9	230	9	200
21...	--	--	--	--	--	--	--	--	--	--
NOV										
30...	260	45	66	24	25	.7	1.5	250	6	220
DEC										
01...	--	--	--	--	--	--	--	--	--	--
21...	320	82	80	28	31	.8	1.8	290	0	240
JAN										
13...	--	--	--	--	--	--	--	--	--	--
21...	270	80	68	24	20	.5	1.6	230	0	190
FEB										
18...	300	73	75	28	24	.6	1.8	280	0	230
MAR										
06...	--	--	--	--	--	--	--	--	--	--
17...	270	76	68	25	21	.6	1.8	240	0	200
APR										
04...	--	--	--	--	--	--	--	--	--	--
MAY										
01...	220	41	59	18	13	.4	1.6	220	0	180
09...	--	--	--	--	--	--	--	--	--	--
26...	220	36	62	15	9.2	.3	1.4	220	0	180
JUN										
06...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
19...	230	32	53	24	25	.7	2.8	230	6	200
JUL										
14...	--	--	--	--	--	--	--	--	--	--
AUG										
04...	270	36	62	27	26	.7	2.5	280	0	230
17...	--	--	--	--	--	--	--	--	--	--
SEP										
01...	240	60	63	20	19	.5	2.0	240	0	180
22...	--	--	--	--	--	--	--	--	--	--
30...	260	70	68	22	22	.6	1.9	250	0	190

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)
OCT										
13...	74	29	.3	8.2	--	352	.48	37.1	.07	--
21...	--	--	--	--	--	--	--	--	--	--
NOV										
30...	58	28	.2	14	--	343	.47	125	.14	--
DEC										
01...	--	--	--	--	--	--	--	--	--	--
21...	84	35	.3	11	--	414	.56	157	.23	--
JAN										
13...	--	--	--	--	--	--	--	--	--	--
21...	74	32	.2	8.8	345	342	.47	136	.18	.13
FEB										
18...	83	28	.2	10	386	388	.53	183	.16	.20
MAR										
06...	--	--	--	--	--	--	--	--	--	--
17...	73	24	.2	8.2	335	340	.46	51.4	.09	.14
APR										
04...	--	--	--	--	--	--	--	--	--	--
MAY										
01...	49	14	.1	7.5	276	271	.37	555	.00	.33
09...	--	--	--	--	--	--	--	--	--	--
26...	38	8.1	.1	7.5	238	252	.34	816	.52	.20
JUN										
06...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
19...	45	25	.1	9.8	299	306	.42	1540	.45	.09
JUL										
14...	--	--	--	--	--	--	--	--	--	--
AUG										
04...	58	25	.2	9.1	352	348	.47	316	.09	.06
17...	--	--	--	--	--	--	--	--	--	--
SEP										
01...	62	20	.2	7.3	313	312	.42	163	.05	.04
22...	--	--	--	--	--	--	--	--	--	--
30...	74	22	.2	7.1	345	341	.46	200	.05	.08

10039500 BEAR RIVER AT BORDER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS NO3)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT										
13...	--	--	--	--	--	--	--	.00	--	--
21...	--	--	--	--	--	--	--	--	--	--
NOV										
30...	--	--	--	--	--	--	--	.00	--	--
DEC										
01...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	.00	--	--
JAN										
13...	--	--	--	--	--	--	--	--	--	--
21...	.14	--	--	--	.38	--	--	.02	.02	1.3
FEB										
18...	.09	.06	.15	.00	.21	.35	1.6	.02	.01	--
MAR										
06...	--	--	--	--	--	--	--	--	--	--
17...	.06	1.8	.24	.00	.27	.38	1.7	.03	.00	--
APR										
04...	--	--	--	--	--	--	--	--	--	--
MAY										
01...	.09	1.3	1.4	1.0	.39	1.7	7.7	.47	.02	--
09...	--	--	--	--	--	--	--	--	--	--
26...	.04	--	--	--	.49	--	--	.16	.02	5.0
JUN										
06...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
19...	.10	.90	1.0	.18	.82	1.1	4.8	.13	.00	7.9
JUL										
14...	--	--	--	--	--	--	--	--	--	--
AUG										
04...	.01	1.4	1.4	.20	1.2	1.5	6.5	.04	.00	--
17...	--	--	--	--	--	--	--	--	--	--
SEP										
01...	.09	1.0	1.1	.24	.86	1.1	5.0	.05	.01	2.9
22...	--	--	--	--	--	--	--	--	--	--
30...	.04	.88	.92	.53	.39	1.0	4.4	.03	.00	2.3

DATE	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C)	PHYTO-PLANK-TON, TOTAL (CELLS PER ML)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	CHLOR-A PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	CHLOR-B PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)
OCT										
13...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
NOV										
30...	--	--	--	--	--	--	--	--	--	--
DEC										
01...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
JAN										
13...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
FEB										
18...	2.6	.5	--	--	--	--	--	--	--	--
MAR										
06...	--	--	--	--	--	--	--	--	--	--
17...	--	--	580	32	4.8	--	--	--	--	--
APR										
04...	--	--	--	--	--	--	--	--	--	--
MAY										
01...	5.4	2.8	--	341	698	98	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
26...	--	--	1100	163	528	93	.157	.315	--	--
JUN										
06...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
19...	--	--	2300	173	869	--	--	--	--	--
JUL										
14...	--	--	--	--	--	--	--	--	--	--
AUG										
04...	7.0	.6	3100	57	52	96	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
SEP										
01...	--	--	2200	37	19	96	4.09	5.28	3.20	.000
22...	--	--	--	--	--	--	--	--	--	--
30...	--	--	2900	62	36	55	10.9	11.8	7.36	.000

10039500 BEAR RIVER AT BORDER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS-PENDED TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA)	BARIUM, SUS-PENDED RECOV-ERABLE (UG/L AS BA)	BARIUM, DIS-SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM SUS-PENDED RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)
FEB 18...	1515	1	0	1	0	0	100	0	0	4
MAY 01...	1000	2	0	2	200	100	100	1	0	1
AUG 04...	1515	2	0	2	200	100	100	3	0	5

DATE	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, SUS-PENDED RECOV. (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO)	COBALT, SUS-PENDED RECOV-ERABLE (UG/L AS CO)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, SUS-PENDED RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)
FEB 18...	0	0	0	1	1	0	6	6	0	250
MAY 01...	0	0	0	2	2	0	11	10	1	5100
AUG 04...	10	10	0	0	0	0	24	10	14	730

DATE	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG)
FEB 18...	--	60	4	1	3	20	0	30	.1	.1
MAY 01...	--	160	7	5	2	300	290	10	.0	.0
AUG 04...	720	10	40	30	10	70	60	10	.0	.0

DATE	MERCURY DIS-SOLVED (UG/L AS HG)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, SUS-PENDED TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)	SILVER, SUS-PENDED RECOV-ERABLE (UG/L AS AG)	SILVER, DIS-SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
FEB 18...	.0	0	0	0	0	0	0	20	0	20
MAY 01...	.0	0	0	0	0	0	0	70	50	20
AUG 04...	.0	0	0	0	0	0	0	80	50	30

10039500 BEAR RIVER AT BORDER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	PCB, TOTAL (UG/L)	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG)	NAPHTHALENES, POLYCHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	CHLORDANE, TOTAL (UG/L)	CHLORDANE, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDD, TOTAL (UG/L)	DDD, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDE, TOTAL (UG/L)
OCT 13...	1545	.0	--	.00	.00	--	.0	--	.00	--	.00
MAY 26...	1430	.0	0	.00	.00	.0	.0	0	.00	.0	.00
SEP 30...	1330	.0	--	.00	.00	--	.0	--	.00	--	.00

DATE	DDE, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOTTOM MATERIAL (UG/KG)	DIAZINON, TOTAL (UG/L)	DIELDRIN TOTAL (UG/L)	DIELDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	ENDOSULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	ETHION, TOTAL (UG/L)
OCT 13...	--	.00	--	.00	.00	--	.00	.00	--	.00
MAY 26...	.1	.00	.0	.00	.00	.1	.00	.00	.0	.00
SEP 30...	--	.00	--	.00	.00	--	.00	.00	--	.00

DATE	HEPTACHLOR, TOTAL (UG/L)	HEPTACHLOR, TOTAL IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR EPOXIDE TOTAL (UG/L)	HEPTACHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOTTOM MATERIAL (UG/KG)	MALATHION, TOTAL (UG/L)	METHYL PARATHION, TOTAL (UG/L)	METHYL TRITHION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)
OCT 13...	.00	--	.00	--	.00	--	.00	.00	.00	--
MAY 26...	.00	.0	.00	.0	.00	.1	.00	.00	.00	--
SEP 30...	.00	--	.00	--	.00	--	.00	.00	.00	.00

DATE	PARATHION, TOTAL (UG/L)	TOXAPHENE, TOTAL (UG/L)	TOXAPHENE, TOTAL IN BOTTOM MATERIAL (UG/KG)	TOTAL TRITHION (UG/L)	2,4-D, TOTAL (UG/L)	2,4-D, TOTAL IN BOTTOM MATERIAL (UG/KG)	2,4,5-T TOTAL (UG/L)	2,4,5-T TOTAL IN BOTTOM MATERIAL (UG/KG)	SILVEX, TOTAL (UG/L)	SILVEX, TOTAL IN BOTTOM MATERIAL (UG/KG)
OCT 13...	.00	0	--	.00	.00	--	.00	--	.00	--
MAY 26...	.00	0	0	.00	.00	0	.00	0	.00	.0
SEP 30...	.00	0	--	.00	.00	0	.00	0	.00	.0

DATE	TOTAL DICAMBA (UG/L)	DICAMBA IN BOTTOM MATERIAL (UG/KG)	TOTAL PICLORAM (UG/L)	PICLORAM IN BOTTOM MATERIAL (UG/KG)
MAY 26...	.02	0	.00	0
SEP 30...	.00	3.8	.00	0

10039500 BEAR RIVER AT BORDER, WY--Continued

SPECIFIC CONDUCTANCE (MICPOMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				---	617	538	561	476	398	461	570	490
2				---	594	528	585	487	521	441	563	496
3				---	559	556	578	410	521	446	553	502
4				---	573	556	606	466	531	497	538	490
5				---	599	548	619	430	521	482	538	495
6				601	578	573	591	477	521	500	509	494
7				600	592	563	620	474	511	502	518	528
8				563	603	554	596	477	526	500	521	513
9				583	565	557	569	475	536	497	536	519
10				602	581	543	558	438	503	515	547	508
11				584	535	545	556	443	503	522	515	526
12				558	540	541	552	426	509	532	511	532
13				565	549	560	550	414	509	532	517	532
14				570	565	555	554	427	514	543	512	532
15				530	578	552	563	407	474	537	517	526
16				488	575	543	552	432	474	516	506	530
17				606	607	564	540	422	490	554	517	508
18				563	615	563	550	415	470	544	518	530
19				564	589	560	554	422	504	525	512	530
20				591	586	559	553	415	488	535	495	503
21				568	542	548	538	408	499	540	500	534
22				573	551	554	553	414	499	604	520	536
23				553	570	514	534	393	494	582	495	541
24				597	558	509	513	388	499	622	498	530
25				578	574	525	513	395	495	623	506	519
26				580	554	530	508	399	485	609	506	519
27				581	543	540	508	393	480	588	496	524
28				582	548	640	470	393	480	573	501	536
29				611	---	581	455	389	470	572	501	529
30				614	---	577	465	389	475	570	506	538
31				616	---	559	---	398	---	561	469	---
MEAN				578	573	553	549	426	497	536	516	520

WTR YR 1978 MEAN 526 MAX 640 MIN 388

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				---	1.0	1.0	8.0	9.0	11.5	17.5	19.5	19.0
2				---	1.0	2.0	8.5	8.0	12.0	17.5	20.0	19.0
3				---	1.5	2.5	8.5	9.0	12.0	16.0	20.0	19.5
4				---	1.0	2.5	9.0	8.5	12.0	16.5	21.5	19.5
5				---	1.5	3.5	9.0	6.5	12.5	16.0	20.5	19.5
6				2.0	1.5	3.5	9.0	6.5	14.5	16.5	20.0	19.5
7				1.0	2.0	3.0	9.0	6.5	14.5	17.0	20.5	19.0
8				.5	2.0	3.0	8.5	8.5	15.0	18.0	20.5	18.5
9				1.0	2.5	3.0	8.5	12.0	14.5	18.5	18.5	18.5
10				.5	2.0	3.0	8.5	12.0	14.0	15.5	20.5	18.5
11				1.0	1.5	2.5	8.5	12.0	14.0	16.0	20.0	12.0
12				1.0	1.5	2.5	8.5	12.0	14.0	17.5	20.0	11.5
13				1.5	1.5	3.0	8.5	12.5	14.0	17.0	18.5	11.5
14				1.0	1.0	3.0	8.5	13.5	14.5	17.0	15.5	11.0
15				1.5	.5	3.5	8.5	13.5	13.0	17.0	15.5	11.5
16				.5	.5	4.0	8.5	12.0	14.0	20.0	18.5	10.5
17				1.0	.5	4.0	8.0	12.0	14.5	19.5	18.5	10.0
18				1.0	.5	4.0	8.0	12.0	13.0	19.0	18.5	10.5
19				1.5	.5	4.0	8.0	8.0	15.5	19.5	18.5	10.5
20				1.0	.5	4.0	8.0	12.5	15.5	19.5	18.5	10.0
21				1.5	.0	4.0	8.0	13.5	15.5	19.0	19.5	10.5
22				1.5	.0	4.0	7.0	14.0	16.0	20.0	19.5	11.0
23				.5	.0	4.0	10.0	10.0	17.0	20.0	20.0	12.0
24				1.0	.0	4.0	9.5	9.5	17.5	20.5	19.0	12.0
25				1.0	.5	4.0	10.0	9.5	15.5	20.5	19.0	14.0
26				1.0	1.0	6.5	10.0	9.5	16.0	20.5	18.5	14.5
27				.5	1.0	7.5	10.0	9.0	16.5	21.0	18.5	14.0
28				1.5	1.0	8.0	9.5	9.0	18.0	20.5	19.0	14.0
29				1.5	---	8.5	9.5	8.5	17.5	20.0	19.5	12.5
30				.5	---	9.0	9.5	8.5	17.5	20.0	19.0	12.5
31				.5	---	9.0	---	11.5	---	19.5	19.0	---
MEAN				1.0	1.0	4.0	9.0	10.5	14.5	18.5	19.0	14.0

WTR YR 1978 MEAN 10.5 MAX 21.5 MIN .0

10039500 BEAR RIVER AT BORDER, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO SEPTEMBER 1978

DATE	MAR 17,78		MAY 26,78		JUN 19,78		AUG 4,78		SEP 1,78		SEP 30,78	
TIME	1500		1430		1500		1515		1440		1330	
TOTAL CELLS/ML	580		1100		2300		3100		2200		2900	
DIVERSITY: DIVISION	0.7		1.1		1.2		0.6		1.7		1.5	
.CLASS	0.7		1.1		1.3		0.6		1.7		1.5	
..ORDER	0.8		1.5		1.9		0.8		2.0		2.4	
...FAMILY	3.1		2.0		2.6		0.8		2.3		3.0	
....GENUS	3.2		2.3		3.0		1.2		2.4		3.2	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)												
.CHLOROPHYCEAE												
..CHLOROCOCCALES												
...CHARACIACEAE												
....SCHROEDERIA	--	-	--	-	--	-	--	-	11	1	84	3
...OOCYSTACEAE												
....ANKISTRODESMUS	22	4	--	-	86	4	53	2	110	5	84	3
....KIRCHNERIELLA	--	-	--	-	--	-	--	-	--	-	34	1
...SCENEDESMACEAE												
....SCENEDESMUS	--	-	--	-	110	5	110	3	390#	18	370	13
..TETRASPORALES												
...TETRASPORACEAE												
....TETRASPORA	--	-	--	-	--	-	--	-	--	-	67	2
..VOLVOCALES												
...CHLAMYDOMONADACEAE												
....CHLAMYDOMONAS	--	-	--	-	--	-	--	-	11	1	--	-
..ZYGNEMATALES												
...DESMIDIACEAE												
....COSMARIUM	--	-	--	-	--	-	27	1	--	-	--	-
CHRYSOPHYTA												
.BACILLARIOPHYCEAE												
..CENTRALES												
...COSCINODISCACEAE												
....CYCLOTELLA	7	1	170	15	57	2	2600#	81	720#	33	840#	29
....MELOSIRA	--	-	--	-	--	-	--	-	46	2	--	-
....STEPHANODISCUS	--	-	--	-	--	-	210	7	--	-	--	-
..PENNALES												
...ACHNANTHACEAE												
....COCCONEIS	7	1	--	-	--	-	--	-	--	-	--	-
...CYMBELLACEAE												
....AMPHORA	--	-	14	1	--	-	--	-	--	-	--	-
....CYMBELLA	52	9	--	-	14	1	--	-	--	-	--	-
...DIATOMACEAE												
....DIATOMA	7	1	--	-	--	-	--	-	23	1	67	2
...FRAGILARIACEAE												
....SYNEDRA	30	5	29	2	--	-	27	1	11	1	100	3
...GOMPHONEMATACEAE												
....GOMPHONEMA	110#	19	--	-	--	-	--	-	--	-	17	1
...NAVICULACEAE												
....NAVICULA	130#	22	71	6	86	4	53	2	80	4	150	5
...NITZSCHIACEAE												
....HANTZSCHIA	--	-	--	-	14	1	--	-	--	-	--	-
....NITZSCHIA	67	12	140	13	210	9	--	-	34	2	150	5
...SURIRELLACEAE												
....CYMATOPLEURA	7	1	--	-	--	-	--	-	--	-	--	-
....SURIRELLA	75	13	43	4	14	1	--	-	--	-	17	1
...TABELLARIACEAE												
....TABELLARIA	15	3	--	-	--	-	--	-	--	-	--	-
.CHRYSOPHYCEAE												
..CHRYSOMONADALES												
...OCHROMONADACEAE												
....OCHROMONAS	--	-	--	-	14	1	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)												
.CRYPTOPHYCEAE												
..CRYPTOMONADALES												
...CRYPTOMONADACEAE												
....CRYPTOMONAS	--	-	--	-	29	1	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

10039500 BEAR RIVER AT BORDER, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO SEPTEMBER 1978

DATE TIME	MAR 17,78 1500		MAY 26,78 1430		JUN 19,78 1500		AUG 4,78 1515		SEP 1,78 1440		SEP 30,78 1330	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CYANOPHYTA (BLUE-GREEN ALGAE)												
.CYANOPHYCEAE												
..HORMOGONALES												
...OSCILLATORIACEAE												
....PHORMIDIUM	--	-	--	-	640#	28	--	-	--	-	--	-
..CHROOCOCCALES												
...CHROOCOCCACEAE												
....AGMENELLUM	--	-	--	-	--	-	--	-	--	-	130	5
....ANACYSTIS	--	-	--	-	360#	16	--	-	710#	32	470#	16
..HORMOGONALES												
...NOSTOCACEAE												
....ANABAENA	--	-	--	-	260	11	--	-	--	-	--	-
...OSCILLATORIACEAE												
....LYNGBYA	--	-	560#	49	--	-	--	-	--	-	--	-
....OSCILLATORIA	45	8	100	9	390#	17	--	-	--	-	340	11
..CHROOCOCCALES												
...CHROOCOCCACEAE												
....DACTYLOCOCCOPSIS	--	-	--	-	--	-	80	3	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)												
.EUGLENOPHYCEAE												
..EUGLENALES												
...EUGLENACEAE												
....EUGLENA	7	1	--	-	--	-	27	1	11	1	--	-
....TRACHELOMONAS	--	-	14	1	14	1	--	-	46	2	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

10041000 THOMAS FORK NEAR WYOMING-IDAHO STATE LINE

LOCATION.--Lat 42°24'10", long 111°01'30", in SE¼NW¼ sec.19, T.28 N., R.119 W., Lincoln County, WY, Hydrologic Unit 16010102, on right bank 1.3 mi (2.1 km) upstream from State line, 1.5 mi (2.4 km) downstream from Giraffe Creek, and 3.5 mi (5.6 km) northeast of Geneva, ID.

DRAINAGE AREA.--113 mi^2 (293 km^2).

PERIOD OF RECORD.--October 1949 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,280 ft (1,914 m), from topographic map. Prior to Aug. 23, 1957, at site 0.2 mi (0.3 km) upstream at different datum.

REMARKS.--Records good except those for winter periods, which are fair.

AVERAGE DISCHARGE.--29 years, 54.9 ft^3/s (1.55 m^3/s), 39,780 acre-ft/yr (49.0 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,040 ft^3/s (29.5 m^3/s) May 14, 1971, gage height, 3.84 ft (1.170 m); minimum, 2.6 ft^3/s (0.074 m^3/s) Mar. 2, 1956, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 150 ft^3/s (4.25 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Apr. 11	0300	177	5.01	1.81	0.552
Apr. 16	0200	212	6.00	1.95	.594
Apr. 21	0100	202	5.72	1.92	.585
Apr. 30	2200	501	14.2	2.81	0.856
May 4	0200	575	16.3	2.98	.908
May 15	2400	*808	22.9	3.44	1.049

Minimum discharge, 4.2 ft^3/s (0.119 m^3/s) Nov. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.3	8.4	9.6	12	12	12	91	420	257	83	41	25
2	7.9	8.4	10	12	12	12	90	460	247	81	38	24
3	7.6	8.1	10	12	12	12	74	519	249	79	37	24
4	7.4	8.1	10	12	13	13	71	519	247	77	36	24
5	7.3	8.4	10	12	13	13	75	453	230	75	36	24
6	8.3	9.0	11	13	13	13	74	405	220	74	35	24
7	10	8.4	11	13	13	12	92	384	215	73	34	25
8	9.0	7.4	11	13	13	13	110	348	205	70	33	26
9	8.2	8.0	11	13	13	13	133	342	199	70	33	24
10	7.9	8.1	11	12	13	13	147	386	192	67	33	24
11	7.6	8.1	11	12	12	14	161	465	182	63	33	28
12	7.7	8.0	11	12	12	14	151	454	171	61	34	26
13	7.7	8.0	11	11	12	13	151	461	163	59	47	26
14	7.4	8.1	11	12	12	13	151	562	157	58	51	25
15	7.4	8.7	11	12	12	13	158	670	151	56	37	25
16	7.4	8.5	11	12	12	14	192	672	144	56	34	23
17	7.4	7.5	11	12	12	14	160	543	138	53	35	31
18	7.4	8.2	11	12	12	14	142	489	133	53	34	42
19	7.4	8.0	11	12	12	15	146	437	128	51	32	31
20	7.6	8.1	11	12	12	16	163	429	122	50	31	28
21	8.1	9.0	11	12	12	17	181	456	117	52	30	26
22	8.1	9.0	11	11	12	19	161	472	112	49	31	25
23	7.8	9.0	11	11	13	23	159	480	108	47	29	24
24	7.4	8.9	11	12	13	27	169	452	105	45	28	23
25	7.4	9.0	11	12	13	25	207	406	102	44	28	23
26	7.4	10	12	13	12	25	325	377	99	42	27	22
27	7.4	10	12	13	12	29	364	350	95	42	27	22
28	7.4	10	12	13	12	34	354	328	91	42	26	22
29	8.4	10	12	13	---	40	351	321	89	43	26	21
30	10	10	12	12	---	49	466	306	87	41	26	21
31	9.0	---	12	12	---	61	---	278	---	41	26	---
TOTAL	245.3	258.4	341.6	377	346	615	5269	13644	4755	1797	1028	758
MEAN	7.91	8.61	11.0	12.2	12.4	19.8	176	440	159	58.0	33.2	25.3
MAX	10	10	12	13	13	61	466	672	257	83	51	42
MIN	7.3	7.4	9.6	11	12	12	71	278	87	41	26	21
AC-FT	487	513	678	748	686	1220	10450	27060	9430	3560	2040	1500

CAL YR 1977 TOTAL 3909.0 MEAN 10.7 MAX 37 MIN 4.9 AC-FT 7750
WTR YR 1978 TOTAL 29434.3 MEAN 80.6 MAX 672 MIN 7.3 AC-FT 58380

SNAKE RIVER MAIN STEM

13010500 JACKSON LAKE NEAR MORAN, WY

LOCATION.--Lat 43°51'33", long 110°35'23", in SE¼SW¼ sec.18, T.45 N., R.114 W., Teton County, Hydrologic Unit 17040101, Grand Teton National Park, near left end of spillway over Jackson Lake Dam on Snake River, 4.3 mi (6.9 km) west of Moran, and at mile 988.9 (1,591.1 km).

DRAINAGE AREA.--807 mi^2 (2,090 km^2).

PERIOD OF RECORD.--July 1908 to current year (1908-10 fragmentary). Prior to October 1968, published as "at Moran".

REVISED RECORDS.--WRD ID 1974: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6,700.00 ft (2,042.160 m), Bureau of Reclamation datum. Datum of Geological Survey, National Geodetic Vertical Datum of 1929, is 2.08 ft (0.634 m) lower. July 1908 to June 1, 1941, nonrecording gage at site 300 ft (91 m) upstream at same datum. June 1, 1941, to Feb. 17, 1978, nonrecording gage at same site and datum.

REMARKS.--Reservoir was formed by log crib dam built in the outlet of the natural lake in 1906. Usable capacity was 300,000 acre-ft (370 hm^3). This dam washed out in July 1910 and was replaced by an earth dam, forming a reservoir with a usable capacity of 380,000 acre-ft (469 hm^3). The earth dam was raised in 1916, increasing the usable capacity to 790,000 acre-ft (974 hm^3). In 1917, by dredging the outlet, the capacity was further increased to 847,000 acre-ft (1,040 hm^3) between elevations 6,730 ft (2,051 m), top of baffles to sluices, and 6,769 ft (2,063 m), top of spillway gates. Reservoir is used to store water for irrigation in Snake River valley in Idaho. Figures given herein represent usable contents.

COOPERATION.--Reservoir elevations and capacity table furnished by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 859,530 acre-ft (1,060 hm^3) July 11, 1965, elevation, 6,769.49 ft (2,063.341 m); no usable contents for several days during period August to October 1919.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 626,800 acre-ft (773 hm^3) July 14, elevation, 6,760.10 ft (2,060.478 m); minimum, 228,600 acre-ft (282 hm^3) Oct. 1, elevation, 6,742.30 ft (2,055.053 m).

Capacity table (elevation, in feet, and contents, in acre-feet)

6,740	182,500
6,750	392,900
6,760	624,400
6,770	872,600

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	228600	241800	254000	286800	307800	334100	326000	331900	437600	569400	623200	556700
2	229200	242600	254200	287000	309300	335200	326500	333600	439400	575800	622900	554100
3	229800	242800	255900	287400	310000	336000	325800	336200	443000	582400	621000	551300
4	230000	242800	256100	288300	311900	336400	326000	340800	447400	588400	619600	548300
5	230200	243200	256300	288700	313600	333400	32[illegible]500	343000	450600	593400	618100	545700
6	230400	243700	256500	289300	314000	333400	326500	344300	455600	597400	616500	543100
7	230600	244100	255400	290200	314500	333400	326300	345100	461900	601400	615000	540800
8	232200	244300	257300	292100	314900	333400	326900	345800	468600	605700	612900	538200
9	232800	244700	259200	292900	316400	333400	326700	346900	476600	611000	610700	535900
10	233600	244900	261000	293800	317700	333200	326700	347700	485800	616500	608800	533500
11	234100	245100	263100	294600	319200	333000	326900	350600	494600	621000	606200	532400
12	234300	245300	265000	295300	320500	332800	327100	353400	497800	624100	603800	531400
13	234500	245500	266900	296500	321300	332500	327300	354700	498900	626000	603600	531000
14	234700	245900	268500	297200	321500	332300	327600	356900	502600	626800	602100	530500
15	234900	246300	270600	297800	321800	331900	327800	362000	508900	626000	599300	530500
16	234900	246800	271900	298900	322000	331500	328000	370300	514700	625100	598300	530500
17	234900	247200	272300	299300	322200	331000	328600	378700	517700	625100	596700	531400
18	235100	247600	274400	299700	322600	330400	328900	382900	518400	624400	594300	531900
19	235100	248000	274600	301200	322800	329900	328600	386300	519800	623200	591700	532100
20	235500	248400	275000	302000	323000	329500	329100	388500	521200	623600	589600	532100
21	236300	248800	275400	302500	323500	329100	329100	390500	521900	623600	587200	532400
22	236900	249200	276500	302700	324100	328600	328900	392000	526100	622900	584800	532600
23	237700	249600	277500	303100	325000	328200	328400	398000	531200	622900	582200	532800
24	238300	249900	280500	303800	325800	328200	328000	403200	536100	622900	579600	533000
25	238600	250100	280700	304000	327100	328000	327600	408800	541500	622700	577000	533300
26	238800	250700	281100	304600	332300	327800	327300	412600	544800	622900	574400	533800
27	239000	251300	281700	305200	332800	327600	327800	415700	546900	622900	571600	534000
28	239200	251700	282200	305700	333200	327100	328400	419300	550800	623400	568300	534500
29	239600	252300	282400	305900	---	326700	329300	423800	556500	623900	565400	534700
30	240200	253400	283800	306300	---	326300	330200	430400	563300	624100	562600	534700
31	240800	---	284200	307400	---	325800	---	435100	---	623600	559600	---
MAX	240800	253400	284200	307400	333200	336400	330200	435100	563300	626800	623200	556700
MIN	228600	241800	254000	286800	307800	325800	325800	331900	437600	569400	559600	530500
(†)	6742.90	6743.51	6744.99	6746.08	6747.28	6746.94	6747.14	6751.88	6757.43	6759.97	6757.27	6756.21
(‡)	+13500	+12600	+30800	+23200	+25800	-7400	+4400	+104900	+128200	+60300	-64000	-24900

CAL YR 1977 MAX 692600 MIN 226700
WTR YR 1978 MAX 626800 MIN 228600

† Elevation, in feet, at end of month.
‡ Change in contents, in acre-feet.

13011000 SNAKE RIVER NEAR MORAN, WY

LOCATION.--Lat 43°51'31", long 110°35'09", in SW¼SE¼ sec.18, T.45 N., R.114 W., Teton County, Hydrologic Unit 17040101, Grand Teton National Park, on left bank 1,000 ft (305 m) downstream from Jackson Lake Dam, 4.1 mi (6.6 km) west of Moran, and at mile 984.5 (1,584.1 km).

DRAINAGE AREA.--807 mi² (2,090 km²). Mean altitude, 8,040 ft (2,450 m).

PERIOD OF RECORD.--September 1903 to current year. Monthly discharge only for some periods, published in WSP 1317. Published as "South Fork Snake River at Moran" prior to October 1910 and as "Snake River at Moran" October 1910 to September 1968.

REVISED RECORDS.--WSP 1217: 1944(m). WSP 1347: 1906-10. WRD ID 1974: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6,727.84 ft (2,050.646 m), National Geodetic Vertical Datum of 1929. Prior to June 13, 1917, nonrecording gage, and June 14, 1917, to May 20, 1940, water-stage recorder, at site 1.5 mi (2.4 km) downstream at different datums.

REMARKS.--Records excellent. Flow regulated by Jackson Lake (see sta 13010500).

COOPERATION.--Once-daily gage readings for current reporting purposes furnished by Bureau of Reclamation.

AVERAGE DISCHARGE.--75 years, 1,440 ft³/s (40.78 m³/s), 1,043,000 acre-ft/yr (1,290 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,100 ft³/s (428 m³/s) June 12, 1918, gage height, 10.41 ft (3.173 m), site and datum then in use; minimum, 0.30 ft³/s (0.01 m³/s) Oct. 26, 27, 28, 1969, gage height, 0.89 ft (0.271 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood during early June 1894 was considererably higher than that of June 12, 1918.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,780 ft³/s (164 m³/s) June 19-21, gage height, 7.70 ft (2.347 m); minimum, 137 ft³/s (3.88 m³/s) Nov. 15-16, 22, gage height, 1.89 ft (0.576 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	180	155	144	157	165	171	633	881	2680	2660	1530	2070
2	179	154	145	159	165	237	631	888	2680	2110	1680	2070
3	172	154	145	159	165	401	629	966	2700	1930	1840	2060
4	159	156	145	159	165	397	628	1000	3190	1940	1640	2050
5	159	156	145	157	165	393	627	1060	3500	1950	1840	2050
6	158	157	146	157	165	389	628	1110	3950	1950	1820	2040
7	154	157	144	157	165	388	630	1100	4830	1870	1830	2040
8	154	157	145	157	168	387	632	1100	5090	1190	1830	2040
9	153	158	146	157	168	383	634	1310	5110	995	1830	2030
10	154	151	145	157	168	378	633	1580	5390	1090	1880	2020
11	154	143	145	157	169	375	632	1590	5640	1890	1930	1680
12	153	142	146	159	168	372	634	1570	5650	2250	1990	1200
13	154	141	147	159	168	425	634	1580	5660	2650	2060	928
14	153	140	149	159	171	510	634	1580	5680	3340	2060	678
15	153	139	152	159	171	508	633	1590	5720	3540	2050	535
16	152	138	151	159	171	506	634	1610	5750	3310	2050	426
17	152	140	153	159	171	505	633	1620	5760	3160	2050	385
18	151	140	151	159	171	505	749	1900	5770	2900	2040	403
19	151	140	151	159	171	505	864	2340	5770	2270	2030	403
20	152	140	153	159	171	505	864	2550	5780	1990	2030	403
21	152	140	154	159	171	505	863	2550	5470	1980	2040	403
22	152	140	154	162	171	505	863	2550	5100	1980	2120	400
23	153	140	152	162	171	505	863	2560	5000	1860	2120	398
24	153	141	153	162	171	505	862	2580	4740	1780	2120	398
25	153	141	153	162	171	505	865	2600	4530	1630	2110	397
26	154	144	154	162	171	504	873	2610	4130	1540	2110	411
27	153	144	154	162	171	522	874	2620	3620	1540	2100	356
28	154	143	153	162	171	619	875	2630	3310	1540	2100	297
29	155	143	157	162	---	629	876	2640	3010	1550	2090	296
30	155	143	157	162	---	629	879	2660	3030	1540	2080	281
31	155	---	157	165	---	629	---	2670	---	1530	2080	---
TOTAL	4836	4377	4646	4946	4729	14297	21909	57595	138240	63455	61280	31148
MEAN	156	146	150	160	169	461	730	1858	4608	2047	1977	1038
MAX	180	158	157	165	171	629	879	2670	5780	3540	2120	2070
MIN	151	138	144	157	165	171	627	881	2680	995	1530	281
AC-FT	9590	8680	9220	9810	9380	28360	43460	114200	274200	125900	121500	61780

CAL YR 1977 TOTAL 395370 MEAN 1083 MAX 4980 MIN 86 AC-FT 784200
WTR YR 1978 TOTAL 411458 MEAN 1127 MAX 5780 MIN 138 AC-FT 816100

13011900 BUFFALO FORK ABOVE LAVA CREEK, NEAR MORAN, WY

LOCATION.--Lat 43°50'14", long 110°26'21", in SE¼NE¼ sec.29, T.45 N., R.113 W., Teton County, Hydrologic Unit 17040101, Grand Teton National Park, on right bank underneath bridge on U.S. Highway 26, 287, about 2 mi (3 km) upstream from Lava Creek, 3.5 mi (5.6 km) east of Moran, and 4.0 mi (6.4 km) upstream from mouth.

DRAINAGE AREA.--323 mi^2 (837 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1965 to current year. July to November 1906, July 1917 to September 1918, and September 1944 to September 1960 at sites about 4 mi (6 km) downstream.

REVISED RECORDS.--WRD ID 1974: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6,772.78 ft (2,064.343 m), National Geodetic Vertical Datum of 1929 (U.S. Bureau of Public Roads bench mark).

REMARKS.--Records good except those for winter period, which are fair. No regulation or significant diversions above station.

AVERAGE DISCHARGE.--13 years (water years 1966-78), 578 ft^3/s (16.37 m^3/s), 418,800 acre-ft/yr (516 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,020 ft^3/s (170 m^3/s) June 19, 1974, gage height, 7.91 ft (2.411 m); minimum daily, 82 ft^3/s (2.32 m^3/s) Jan. 28-31, 1969.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,100 ft^3/s (87.8 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
June 10	0500	3,870	110	6.47	1.972	June 24	0430	3,890	110	6.49	1.978
June 15	0430	3,450	97.7	6.10	1.859	June 30	0500	*3,900	110	6.49	1.978

Minimum daily discharge, 85 ft^3/s (2.41 m^3/s) Jan. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	152	114	110	105	105	100	202	369	915	3600	1170	383
2	140	136	120	85	105	100	211	430	872	3350	1100	374
3	136	131	130	100	110	100	183	506	964	3300	1040	364
4	136	128	135	105	110	105	177	476	959	3330	952	364
5	133	135	135	115	110	105	172	434	1140	2720	910	354
6	132	133	130	115	110	105	164	403	1550	2770	876	354
7	142	130	130	115	115	105	168	386	1910	2470	858	355
8	146	130	125	115	115	105	182	373	2250	2680	801	381
9	141	125	125	115	100	110	208	366	2790	2700	758	351
10	142	125	125	110	110	110	213	436	3440	2760	722	337
11	128	125	125	110	110	110	220	479	2560	2830	695	366
12	134	125	130	110	105	110	212	462	2060	2670	685	365
13	146	125	140	110	100	110	214	456	2100	2620	733	364
14	151	127	170	110	98	110	214	617	2780	2590	736	347
15	148	129	170	110	97	100	208	901	3160	2810	616	361
16	146	125	165	110	97	98	220	1180	3060	2520	607	359
17	144	120	160	110	97	100	215	951	2440	2690	664	335
18	140	120	155	110	98	105	199	851	2380	2420	585	348
19	137	115	150	110	100	110	212	761	2550	2260	536	331
20	135	105	145	110	105	115	218	763	2170	2120	507	324
21	135	110	135	110	100	120	222	842	2500	2110	488	316
22	134	120	125	110	98	130	217	984	3140	1690	488	346
23	129	120	120	105	100	140	215	1080	3440	1600	495	348
24	130	125	120	95	100	155	209	1230	3610	1650	461	353
25	130	130	120	105	105	135	233	1160	3520	1580	447	341
26	129	140	115	110	105	124	274	1080	2680	1620	433	326
27	130	140	115	105	105	121	341	1050	2470	1460	423	317
28	129	135	115	105	100	128	337	1090	2760	1520	415	307
29	129	130	115	105	---	141	333	1320	3490	1530	403	300
30	138	125	115	105	---	158	352	1230	3640	1310	397	293
31	130	---	115	100	---	176	---	1040	---	1220	386	---
TOTAL	4252	3778	4085	3335	2910	3641	6745	23706	73300	72500	20387	10384
MEAN	137	126	132	108	104	117	225	765	2443	2339	658	346
MAX	152	140	170	115	115	176	352	1320	3640	3600	1170	385
MIN	128	105	110	85	97	98	164	366	872	1220	386	293
AC-FT	8430	7490	8100	6610	5770	7220	13380	47020	145400	143800	40440	20600

CAL YR 1977 TOTAL 100323 MEAN 275 MAX 2680 MIN 100 AC-FT 199000
WTR YR 1978 TOTAL 229023 MEAN 627 MAX 3640 MIN 85 AC-FT 454300

13011900 BUFFALO CREEK ABOVE LAVA CREEK, NEAR MORAN, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1971, 1973 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)
NOV 03...	0940	134	217	1.0
FEB 15...	1140	97	187	.0
MAR 28...	0903	125	182	2.0
MAY 10...	1135	437	227	6.5
JUN 14...	1155	2780	117	4.5
JUL 27...	1035	1540	155	12.5
SEP 14...	1115	349	151	6.0

13018300 CACHE CREEK NEAR JACKSON, WY
(Hydrologic bench-mark station)

LOCATION.--Lat 43°27'08", long 110°42'12", in SW¼SW¼SE¼ sec.1, T.40 N., R.116 W., Teton County, Hydrologic Unit 17040103, Teton National Forest, on right bank 0.7 mi (1.1 km) upstream from Salt Lick Draw, 2.4 mi (3.9 km) southeast of Jackson, and 4.0 mi (6.4 km) upstream from mouth.

DRAINAGE AREA.--10.6 mi² (27.4 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1962 to current year.

REVISED RECORDS.--WDR WY-76-2: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,750 ft (2,057 m), from topographic map.

REMARKS.--Records good except those for winter months, which are poor. No diversion above station.

AVERAGE DISCHARGE.--16 years, 13.8 ft³/s (0.391 m³/s), 10,000 acre-ft/yr (12.3 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 225 ft³/s (6.37 m³/s) June 24, 1971, gage height, 3.90 ft (1.189 m); maximum gage height, 3.97 ft (1.210 m) June 7, 1972; minimum daily discharge, 2.1 ft³/s (0.059 m³/s) Jan. 1, 1978.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 52 ft³/s (1.47 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
June 9	2215	*116	3.29	3.38	1.030

Minimum daily discharge, 2.1 ft³/s (0.059 m³/s) Jan. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.5	3.1	2.9	2.1	3.0	2.7	9.6	12	35	58	20	11
2	4.5	3.2	3.0	2.2	3.2	2.5	8.2	13	36	57	19	11
3	4.5	3.2	3.2	2.2	3.3	2.6	6.7	14	42	54	19	10
4	4.3	3.8	3.0	2.2	3.2	2.7	5.8	12	46	53	18	10
5	4.1	3.8	3.0	2.3	3.2	2.8	5.3	11	53	48	18	10
6	4.7	3.8	2.8	2.3	3.2	2.8	4.7	10	61	47	17	10
7	4.7	3.8	2.8	2.3	3.2	2.7	5.3	9.6	72	44	17	10
8	4.7	3.5	2.6	2.3	3.2	2.7	6.4	8.9	84	44	16	9.9
9	4.5	3.2	2.7	2.3	3.2	2.7	6.9	9.6	100	42	15	9.7
10	4.5	3.3	2.7	2.3	3.2	2.7	7.2	13	98	41	15	9.7
11	4.3	3.4	2.7	2.3	3.1	2.7	8.6	14	79	40	15	9.7
12	3.9	3.4	2.7	2.4	3.2	2.7	8.6	13	67	38	14	9.7
13	4.3	3.2	2.7	2.4	3.1	2.7	8.2	14	72	37	16	9.7
14	4.3	3.0	2.9	2.3	2.9	2.7	7.8	20	82	36	15	9.7
15	4.1	3.2	3.2	2.4	3.0	2.6	7.5	29	87	35	14	9.4
16	3.9	3.0	2.9	2.4	3.2	2.7	7.5	33	80	34	14	9.2
17	3.9	2.9	2.7	2.6	3.4	2.9	7.2	27	72	33	14	9.0
18	3.9	2.8	2.6	2.4	3.4	3.0	6.9	25	69	31	14	9.4
19	3.9	2.7	2.5	2.4	3.4	3.0	6.4	23	67	30	13	9.8
20	3.9	2.6	2.4	2.4	3.4	3.2	6.7	24	66	29	13	9.4
21	3.9	2.5	2.4	2.4	3.2	3.2	6.4	26	69	28	13	9.0
22	3.9	2.5	2.6	2.4	3.2	3.2	6.1	32	71	26	13	8.8
23	3.8	2.7	2.8	2.6	3.2	3.2	5.8	39	72	26	13	8.6
24	3.8	2.9	2.8	2.4	3.4	3.2	5.5	43	71	25	12	8.4
25	3.8	3.2	2.7	2.5	3.5	3.0	6.7	40	67	24	12	8.4
26	3.6	3.3	2.6	2.7	3.2	3.2	11	38	62	23	12	8.2
27	3.6	3.2	2.6	2.6	3.1	3.4	12	37	60	23	12	8.0
28	3.4	3.1	2.6	2.7	2.9	3.9	11	36	58	24	12	8.0
29	3.9	3.0	2.4	2.8	---	4.5	11	41	59	23	11	7.8
30	3.9	2.9	2.4	2.8	---	5.5	11	41	59	22	11	7.8
31	3.8	---	2.4	2.7	---	6.9	---	37	---	20	11	---
TOTAL	126.8	94.2	84.3	75.1	89.7	98.3	228.0	745.1	2016	1095	448	279.3
MEAN	4.09	3.14	2.72	2.42	3.20	3.17	7.60	24.0	67.2	35.3	14.5	9.31
MAX	4.7	3.8	3.2	2.8	3.5	6.9	12	43	100	58	20	11
MIN	3.4	2.5	2.4	2.1	2.9	2.5	4.7	8.9	35	20	11	7.8
AC-FT	252	187	167	149	178	195	452	1480	4000	2170	889	554

CAL YR 1977 TOTAL 1783.0 MEAN 4.88 MAX 18 MIN 2.4 AC-FT 3540
WTR YR 1978 TOTAL 5379.8 MEAN 14.7 MAX 100 MIN 2.1 AC-FT 10670

13018300 CACHE CREEK NEAR JACKSON, WY--Continued
(Hydrologic bench-mark station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1965 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	OXYGEN, DISSOLVED (MG/L)	COLIFORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREPTOCOCCI FECAL, (COLS. PER 100 ML)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)
OCT												
11...	1505	4.5	320	8.7	1.0	1	10.6	94	4	40	180	9
NOV												
01...	0940	A3.1	110	8.3	.5	5	10.1	84	0	--	180	3
30...	1430	A2.9	300	8.3	.0	1	8.4	1	1	3	190	14
JAN												
03...	1440	A2.2	340	8.0	.0	1	11.4	6	19	2	190	23
31...	1630	A2.7	270	8.1	.0	1	12.6	46	43	0	180	11
MAR												
06...	1640	A2.8	350	7.9	1.5	2	10.6	20	22	3	180	4
28...	0915	3.8	335	8.0	1.5	1	10.9	0	0	0	190	8
MAY												
03...	1015	14	310	8.7	2.0	3	10.6	--	0	0	180	0
31...	1700	36	330	8.7	5.5	4	9.5	<1	<1	<1	190	3
JUN												
13...	1400	67	310	--	6.5	10	--	--	--	--	--	--
JUL												
11...	1645	39	350	8.5	10.0	1	8.7	26	1	26	150	3
AUG												
09...	1115	15	300	--	7.0	2	--	43	--	391	160	0
31...	1715	11	290	8.7	9.0	1	9.0	14	--	211	160	13

A-Daily mean discharge.

DATE	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)
OCT												
11...	46	16	2.2	.1	.5	210	--	170	4.9	.8	.1	5.0
NOV												
01...	47	16	2.0	.1	.7	220	0	180	7.4	.5	.1	5.1
30...	50	15	2.1	.1	.6	210	0	170	6.7	.8	.1	5.2
JAN												
03...	50	15	2.1	.1	.6	200	0	160	14	1.3	.3	5.3
31...	47	16	2.4	.1	.6	210	0	170	11	6.8	.1	5.3
MAR												
06...	46	15	2.2	.1	1.1	210	0	170	6.0	.7	.1	6.0
28...	49	16	3.1	.1	.9	220	0	180	18	1.7	.1	4.9
MAY												
03...	49	15	4.2	.1	.8	230	0	190	10	.9	.1	6.0
31...	54	14	3.1	.1	.7	--	--	190	8.9	.6	.1	4.4
JUN												
13...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
11...	40	13	1.4	.1	.6	--	--	150	5.2	.5	.0	4.4
AUG												
09...	42	13	1.4	.0	.6	--	--	160	7.2	.5	.1	4.4
31...	42	14	2.8	.1	.5	--	--	150	64	.6	.1	5.2

13018300 CACHE CREEK NEAR JACKSON, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CYANIDE TOTAL (MG/L AS CN)
OCT											
11...	158	--	179	.24	2.17	--	--	--	.04	.01	.00
NOV											
01...	175	190	187	.25	1.57	4	--	--	.13	.02	--
30...	195	--	184	.25	1.44	--	.12	.01	.13	.00	--
JAN											
03...	176	--	187	.25	1.11	--	.16	.00	.16	.02	--
31...	185	--	193	.26	1.41	--	.09	.00	.09	.02	--
MAR											
06...	172	--	181	.25	1.37	--	--	--	.08	.04	--
28...	192	--	202	.27	2.07	--	.14	.01	.15	.02	--
MAY											
03...	192	--	199	.27	7.52	--	--	--	.05	.03	--
31...	186	--	200	.27	19.4	--	--	--	.02	.02	.00
JUN											
13...	--	--	--	--	--	--	--	--	--	--	--
JUL											
11...	156	--	155	.21	16.3	--	--	--	.08	.03	--
AUG											
09...	158	--	165	.22	6.68	--	--	--	.07	.00	--
31...	161	--	219	.30	7.10	--	--	--	.04	.02	--

DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)
OCT							
11...	1505	0	200	10	10	<10	130
MAY							
31...	1700	1	200	0	10	16	710

DATE	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	SELE-NIUM, TOTAL (UG/L AS SE)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)
OCT						
11...	<100	8	.0	0	<10	10
MAY						
31...	2	20	.0	0	0	60

DATE	TIME	GROSS ALPHA, DIS-SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS-SOLVED (UG/L AS U)
NOV									
01...	0940	2.9	<.4	.6	<.4	.5	<.4	.08	.5

13018300 CACHE CREEK NEAR JACKSON, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG)	ALDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	CHLORDANE, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDD, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDE, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDT, TOTAL IN BOTTOM MATERIAL (UG/KG)	DIELDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)
OCT								
11...	1505	0	.0	0	.0	.1	.0	.0

DATE	ENDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR, TOTAL IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL IN BOTTOM MATERIAL (UG/KG)	TOXAPHENE, TOTAL IN BOTTOM MATERIAL (UG/KG)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
OCT								
11...	.0	.0	.0	.0	0	.00	.00	.00

DATE	TIME	TEMPERATURE (DEG C)	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM
OCT								
11...	1505	1.0	4.5	8	.10	--	--	--
NOV								
01...	0940	.5	A 3.1	5	.04	--	--	--
30...	1430	.0	A 2.9	10	.08	--	--	--
JAN								
03...	1440	.0	A 2.2	4	.02	--	--	--
31...	1630	.0	A 2.7	3	.02	--	--	--
MAR								
06...	1640	1.5	A 2.8	4	.03	--	--	--
28...	0915	1.5	3.8	13	.13	--	--	--
MAY								
03...	1015	2.0	14	22	.83	--	--	--
31...	1700	5.5	36	48	4.7	--	--	--
JUN								
13...	1400	6.5	67	84	15	84	95	100
JUL								
11...	1645	10.0	39	28	2.9	--	--	--
AUG								
09...	1115	7.0	15	17	.69	--	--	--
31...	1715	9.0	11	12	.36	--	--	--

A-Daily mean discharge.

DATE	TIME	TEMPERATURE (DEG C)	STREAMFLOW, INSTANTANEOUS (CFS)	NUMBER OF SAMPLING POINTS	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 128 MM
AUG									
31...	1715	9.0	11	100	3	25	50	77	99

13018750 SNAKE RIVER BELOW FLAT CREEK, NEAR JACKSON, WY

LOCATION.--Lat 43°22'20", long 110°44'17", in NE¼SE¼ sec.3, T.39 N., R.116 W., Teton County, Hydrologic Unit 17040103, on left bank 20 ft (6.1 m) upstream from county road bridge, about 1 mi (1.6 km) downstream from Flat Creek, 4.8 mi (7.7 km) upstream from Hoback River, 7.0 mi (11.3 km) south of Jackson, and at mile 937.9 (1,509.1 km).

DRAINAGE AREA.--2,627 mi^2 (6,804 km^2).

PERIOD OF RECORD.--November 1975 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,950 ft (1,814 m), from topographic map.

REMARKS.--Records fair. Flow partly regulated by Jackson Lake (see sta 13010500). Some diversions from tributaries above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 19,000 ft^3/s (538 m^3/s) June 10, 1978, gage height, 8.64 ft (2.634 m); minimum daily, 880 ft^3/s (24.9 m^3/s) Mar. 4, 6, 14, 17, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 19,000 ft^3/s (538 m^3/s) June 10, gage height, 8.64 ft (2.634 m); minimum daily, 1,070 ft^3/s (30.3 m^3/s) Nov. 22, Jan. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1310	1190	1220	1090	1170	1150	2390	3100	8550	13700	5820	3810
2	1330	1160	1250	1080	1170	1140	2440	3230	8080	12800	5640	3740
3	1320	1170	1260	1070	1170	1160	2310	3520	8500	12000	5760	3690
4	1310	1170	1280	1080	1170	1220	2190	3830	8990	11900	5550	3680
5	1270	1170	1270	1100	1170	1280	2140	3640	10100	11300	5330	3660
6	1270	1200	1250	1100	1200	1280	2090	3470	11400	10500	5210	3700
7	1290	1220	1250	1100	1190	1270	2190	3290	13400	10200	5110	3710
8	1290	1210	1240	1100	1200	1270	2250	3210	14900	9720	5000	3810
9	1290	1180	1200	1120	1190	1280	2330	3120	16100	9180	4840	3790
10	1290	1160	1200	1120	1190	1280	2360	3680	17800	9210	4680	3720
11	1280	1150	1200	1120	1200	1280	2370	4260	17600	9590	4740	3740
12	1270	1160	1220	1120	1200	1290	2440	4320	15200	10200	4720	3410
13	1250	1170	1220	1120	1180	1290	2360	4230	14000	10400	5220	3110
14	1250	1150	1260	1140	1110	1360	2320	4500	15300	10500	5400	2810
15	1250	1140	1530	1140	1170	1360	2260	5580	16800	11100	5060	2540
16	1250	1140	1530	1160	1160	1370	2320	7220	17200	11000	4930	2360
17	1250	1150	1380	1160	1160	1380	2310	7380	16400	10700	5110	2240
18	1250	1150	1300	1160	1150	1410	2230	6710	15200	10400	4900	2260
19	1250	1150	1280	1160	1150	1470	2280	6650	15100	9530	4670	2310
20	1220	1100	1240	1160	1140	1520	2360	6800	14800	8460	4500	2280
21	1180	1080	1200	1160	1120	1550	2360	7100	14700	8280	4350	2230
22	1190	1070	1170	1160	1120	1530	2360	7970	15300	8050	4450	2210
23	1190	1080	1160	1160	1120	1560	2340	8700	16000	7470	4460	2210
24	1180	1110	1150	1140	1140	1630	2310	9330	16500	7010	4330	2210
25	1180	1140	1140	1130	1140	1630	2310	9350	16300	6830	4240	2190
26	1180	1340	1140	1140	1140	1590	2470	8980	15300	6590	4160	2140
27	1180	1360	1130	1160	1140	1640	2690	8810	13300	6420	4100	2120
28	1180	1280	1130	1160	1140	1730	2820	8890	12400	6460	4020	2050
29	1170	1250	1120	1160	---	1830	2840	9600	12800	6720	4000	1980
30	1190	1250	1110	1160	---	1930	2940	10200	13600	6380	3950	1940
31	1190	---	1100	1160	---	2060	---	9540	---	6090	3880	---
TOTAL	38500	35250	38130	35090	32500	44760	71380	190210	421620	288690	148130	85650
MEAN	1242	1175	1230	1132	1161	1444	2379	6136	14050	9313	4778	2855
MAX	1330	1360	1530	1160	1200	2060	2940	10200	17800	13700	5820	3810
MIN	1170	1070	1100	1070	1110	1140	2090	3100	8080	6090	3880	1940
AC-FT	76360	69920	75630	69600	64460	88780	141600	377300	836300	572600	293800	169900

CAL YR 1977 TOTAL 873930 MEAN 2394 MAX 10400 MIN 880 AC-FT 1733000
WTR YR 1978 TOTAL 1429910 MEAN 3918 MAX 17800 MIN 1070 AC-FT 2836000

13022500 SNAKE RIVER ABOVE RESERVOIR, NEAR ALPINE, WY

LOCATION.--Lat 43°11'47", long 110°53'18", Lincoln County, Hydrologic Unit 17040103, on right bank 0.3 mi (0.5 km) downstream from Wolf Creek, 6.4 mi (10.3 km) upstream from Greys River, 7.4 mi (11.9 km) east of Alpine, and at mile 917.5 (1,476.3 km).

DRAINAGE AREA.--3,465 mi^2 (8,974 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1937 to March 1939 (published as "above Greys River, near Alpine"), July 1953 to current year.

GAGE.--Water-stage recorder. Datum of gage is 5,683.90 ft (1,732.453 m), National Geodetic Vertical Datum of 1929. Mar. 16, 1937, to Mar. 31, 1939, at site 6.0 mi (9.7 km) downstream at different datum.

REMARKS.--Records excellent except those for winter period, which are fair. Flow partly regulated by Jackson Lake (see sta 13010500). Some diversions from tributaries above station.

AVERAGE DISCHARGE.--26 years (water years 1938, 1954-78), 4,596 ft^3/s (130 m^3/s), 3,330,000 acre-ft/yr (4.11 km^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,600 ft^3/s (810 m^3/s) June 19, 1974, gage height, 11.96 ft (3.645 m); minimum, 740 ft^3/s (21.0 m^3/s) Nov. 16, 1955, gage height, 2.19 ft (0.668 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 24,000 ft^3/s (680 m^3/s) June 10, 11, gage height, 10.75 (3.277 m); minimum, 1,000 ft^3/s (28.3 m^3/s) Jan. 24, gage height, 2.46 ft (0.750 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1380	1290	1240	1090	1180	1140	3240	5840	10900	17100	6730	4390
2	1400	1270	1230	1070	1180	1130	3390	6160	10500	16000	6520	4260
3	1390	1270	1240	1060	1210	1130	3070	6820	11200	15100	6500	4200
4	1360	1270	1250	1070	1190	1290	2820	6680	12000	14400	6320	4100
5	1340	1260	1260	1090	1140	1350	2690	6100	12700	13600	6070	4120
6	1370	1270	1250	1120	1210	1360	2600	5600	14400	12700	5950	4140
7	1420	1270	1240	1130	1190	1350	2750	5200	16900	12300	5830	4120
8	1400	1250	1220	1130	1230	1340	3030	5120	19100	12000	5710	4310
9	1380	1170	1210	1130	1180	1360	3310	5180	20600	11300	5540	4350
10	1380	1170	1180	1130	1220	1400	3410	6290	22800	11100	5360	4280
11	1370	1170	1190	1140	1240	1400	3580	7450	22300	11300	5360	4220
12	1340	1180	1200	1140	1200	1400	3700	7230	19000	12000	5360	4020
13	1320	1180	1260	1150	1130	1400	3530	6850	17700	11900	5880	3710
14	1330	1190	1360	1160	1150	1440	3370	7760	19300	12100	6250	3380
15	1330	1220	1640	1170	1120	1450	3240	9650	20900	12700	5760	3050
16	1320	1230	1650	1180	1190	1440	3390	11700	21700	12800	5540	2830
17	1310	1180	1400	1180	1120	1460	3330	11000	20200	12400	5710	2680
18	1300	1150	1310	1180	1100	1480	3090	9760	18600	11900	5520	2730
19	1300	1140	1280	1180	1120	1560	3060	9380	18200	10800	5240	2760
20	1290	1120	1220	1180	1160	1630	3260	9440	17800	9660	5090	2720
21	1290	1080	1200	1180	1120	1690	3410	10100	17700	9200	4960	2680
22	1290	1090	1180	1170	1110	1700	3330	11300	18600	8830	5000	2630
23	1280	1090	1160	1190	1120	1720	3230	12300	19600	8490	5070	2630
24	1270	1120	1150	1140	1150	1790	3190	12900	20200	8100	4920	2610
25	1260	1190	1150	1210	1190	1820	3370	12600	20000	7840	4810	2600
26	1250	1490	1150	1230	1190	1800	4150	11800	18600	7600	4750	2560
27	1240	1480	1150	1190	1180	1910	5140	11500	16200	7410	4680	2520
28	1250	1360	1140	1140	1150	2000	5050	11600	15300	7410	4620	2460
29	1260	1320	1120	1190	---	2160	5170	12600	16100	7730	4580	2370
30	1330	1290	1110	1190	---	2360	5310	13300	17100	7460	4510	2320
31	1320	---	1100	1160	---	2590	---	12100	---	7020	4430	---
TOTAL	41070	36760	38440	35670	32670	49050	105210	281310	526200	340250	168570	99750
MEAN	1325	1225	1240	1151	1167	1582	3507	9075	17540	10980	5438	3325
MAX	1420	1490	1650	1230	1240	2590	5310	13300	22800	17100	6730	4390
MIN	1240	1080	1100	1060	1100	1130	2600	5120	10500	7020	4430	2320
AC-FT	81460	72910	76250	70750	64800	97290	208700	558000	1044000	674900	334400	197900

CAL YR 1977 TOTAL 948490 MEAN 2599 MAX 11100 MIN 1070 AC-FT 1881000
WTR YR 1978 TOTAL 1754950 MEAN 4808 MAX 22800 MIN 1060 AC-FT 3481000

13022500 SNAKE RIVER ABOVE RESERVOIR, NEAR ALPINE, WY--Continued

WATER-QUALITY RECORDS

LOCATION.--Samples collected at bridge at Astoria Springs, 3.0 mi (4.8 km) downstream from Hoback River, 13 mi (21 km) upstream from discharge station, and 15 mi (24 km) northeast of Alpine.

PERIOD OF RECORD.--Water years 1965 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREP-TOCOCCI FECAL, (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)
OCT										
14...	0930	1320	340	7.7	7.0	--	9.9	56	74	180
NOV										
02...	1330	1260	420	--	4.0	--	--	--	--	--
DEC										
01...	0900	1210	320	7.7	.0	0	10.8	22	50	170
22...	0900	A1180	360	--	.0	1	11.4	26	--	180
JAN										
22...	0930	1210	400	--	.5	1	--	42	--	180
FEB										
14...	1615	1030	392	--	.5	--	--	--	--	--
19...	1000	1150	310	--	.5	1	12.2	78	--	190
MAR										
18...	0930	1510	360	--	4.0	1	10.8	K11	--	160
27...	1145	1950	358	--	6.5	--	--	--	--	--
APR										
30...	1600	2340	330	--	5.5	15	10.8	K12	--	290
MAY										
09...	1310	5140	357	--	7.0	--	--	--	--	--
27...	1000	8310	270	7.7	6.0	15	10.2	42	--	120
JUN										
13...	1500	17500	232	--	12.0	--	--	--	--	--
20...	1000	17900	220	7.6	13.0	30	8.8	44	--	94
JUL										
26...	1115	7530	505	--	13.0	--	--	--	--	--
AUG										
05...	0900	6100	280	7.9	12.0	2	8.7	32	--	110
SEP										
02...	0930	4240	310	7.7	13.0	1	8.3	22	--	130
13...	0820	3780	268	--	8.0	--	--	--	--	--

A-Daily mean discharge.
K-Results based on colony count outside the acceptable range (non-ideal colony count).

DATE	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)
OCT										
14...	49	50	13	11	.4	2.3	160	0	130	54
NOV										
02...	--	--	--	--	--	--	--	--	--	--
DEC										
01...	47	48	11	8.5	.3	1.7	150	0	120	50
22...	73	52	12	8.9	.3	1.6	130	0	110	57
JAN										
22...	41	52	12	10	.3	1.9	170	0	140	63
FEB										
14...	--	--	--	--	--	--	--	--	--	--
19...	51	46	17	12	.4	2.1	170	0	140	59
MAR										
18...	37	47	11	11	.4	1.5	150	0	120	58
27...	--	--	--	--	--	--	--	--	--	--
APR										
30...	170	44	8.2	8.6	.3	1.5	150	0	120	40
MAY										
09...	--	--	--	--	--	--	--	--	--	--
27...	13	34	7.4	7.2	.3	1.1	130	0	110	23
JUN										
13...	--	--	--	--	--	--	--	--	--	--
20...	12	28	5.6	6.8	.3	.1	100	0	82	18
JUL										
26...	--	--	--	--	--	--	--	--	--	--
AUG										
05...	20	32	7.2	6.0	.2	1.3	110	0	90	21
SEP										
02...	32	38	7.9	11	.4	2.1	120	0	98	46
13...	--	--	--	--	--	--	--	--	--	--

13022500 SNAKE RIVER ABOVE RESERVOIR, NEAR ALPINE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)
OCT										
14...	8.6	.4	12	229	.31	816	.00	.11	.01	.01
NOV										
02...	--	--	--	--	--	--	--	--	--	--
DEC										
01...	4.3	.4	13	212	.29	693	.02	.05	.09	.12
22...	16	.6	15	230	.31	733	.11	--	--	--
JAN										
22...	6.1	.5	19	247	.34	807	.05	--	--	--
FEB										
14...	--	--	--	--	--	--	--	--	--	--
19...	7.4	.5	15	241	.33	748	.09	--	--	--
MAR										
18...	5.3	.5	14	223	.30	909	.07	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
APR										
30...	1.1	.3	4.1	258	.35	1630	.09	--	--	--
MAY										
09...	--	--	--	--	--	--	--	--	--	--
27...	.9	.4	8.6	147	.20	3300	.05	--	--	--
JUN										
13...	--	--	--	--	--	--	--	--	--	--
20...	1.8	.7	10	121	.16	5850	.23	--	--	--
JUL										
26...	--	--	--	--	--	--	--	--	--	--
AUG										
05...	3.3	.3	8.1	135	.18	2220	.11	--	--	--
SEP										
02...	4.1	.6	11	241	.33	2760	.02	--	--	--
13...	--	--	--	--	--	--	--	--	--	--

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	PHYTOPLANKTON, TOTAL (CELLS PER ML)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT									
14...	.07	.18	.80	.01	.9	770	9	32	73
NOV									
02...	--	--	--	--	--	--	--	--	--
DEC									
01...	.05	.10	.44	.00	--	330	2	6.5	61
22...	--	--	--	.01	--	--	--	--	--
JAN									
22...	--	--	--	.00	--	--	--	--	--
FEB									
14...	--	--	--	--	--	--	--	--	--
19...	--	--	--	.02	--	--	--	--	--
MAR									
18...	--	--	--	.02	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--
APR									
30...	--	--	--	.02	--	--	--	--	--
MAY									
09...	--	--	--	--	--	--	--	--	--
27...	--	--	--	.07	--	--	--	--	--
JUN									
13...	--	--	--	--	--	--	--	--	--
20...	--	--	--	.04	--	--	--	--	--
JUL									
26...	--	--	--	--	--	--	--	--	--
AUG									
05...	--	--	--	.01	--	--	--	--	--
SEP									
02...	--	--	--	.03	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--

13022500 SNAKE RIVER ABOVE RESERVOIR, NEAR ALPINE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUSPENDED TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)
OCT											
14...	0930	4	0	4	10	5	5	10	0	20	<50

DATE	COBALT, SUSPENDED RECOVERABLE (UG/L AS CO)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)
OCT											
14...	<50	0	<10	<10	0	80	40	<100	<87	13	20

DATE	MANGANESE, SUSPENDED RECOV. (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY SUSPENDED RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, SUSPENDED TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)
OCT											
14...	20	0	.0	.0	.0	0	0	0	10	10	0

DATE	TIME	PCB, TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLORDANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)	DIAZINON, TOTAL (UG/L)	DIELDRIN TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTACHLOR, TOTAL (UG/L)
DEC												
01...	0900	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

DATE	HEPTACHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALATHION, TOTAL (UG/L)	METHYL PARATHION, TOTAL (UG/L)	METHYL TRITHION, TOTAL (UG/L)	PARATHION, TOTAL (UG/L)	TOXAPHENE, TOTAL (UG/L)	TOTAL TRITHION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
DEC											
01...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND-None determined.

13022500 SNAKE RIVER ABOVE RESERVOIR, NEAR ALPINE, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO DECEMBER 1977

DATE	OCT 14,77	DEC 1,77
TIME	0930	0900
TOTAL CELLS/ML	770	330
DIVERSITY: DIVISION	0.3	0.0
.CLASS	0.3	0.0
..ORDER	0.4	0.2
...FAMILY	2.6	2.5
....GENUS	3.0	2.5

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHRYSOPHYTA				
.BACILLARIOPHYCEAE				
..CENTRALES				
...COSCINODISCACEAE				
....CYCLOTELLA	8	1	--	-
....STEPHANODISCUS	--	-	12	4
..PENNALES				
...ACHNANTHACEAE				
....ACHNANTHES	--	-	*	0
....COCCONEIS	25	3	25	7
...CYMBELLACEAE				
....CYMBELLA	58	7	49	15
....EPITHEMIA	25	3	*	0
...DIATOMACEAE				
....DIATOMA	120	15	140#	41
...FRAGILARIACEAE				
....FRAGILARIA	300#	38	--	-
....SYNEDRA	33	4	12	4
...GOMPHONEMATACEAE				
....GOMPHONEIS	33	4	--	-
....GOMPHONEMA	8	1	12	4
...NAVICULACEAE				
....NAVICULA	49	6	62#	19
....PINNULARIA	8	1	--	-
...NITZSCHIACEAE				
....NITZSCHIA	74	10	25	7
CYANOPHYTA (BLUE-GREEN ALGAE)				
.CYANOPHYCEAE				
..HORMOGONALES				
...NOSTOCACEAE				
....APHANIZOMENON	33	4	--	-
...RIVULARIACEAE				
....RAPHIDIOPSIS	8	1	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

OCT. 14. 1977
0930 HOURS

PERIPHYTON IDENTIFICATION

_ORGANISM__NAME_______________	_COMMON__NAME_______
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...ACHNANTHACEAE	
....ACHNANTHES	
....COCCONEIS	
...CYMBELLACEAE	
....CYMBELLA	
....EPITHEMIA	
...DIATOMACEAE	
& ....DIATOMA	
...FRAGILARIACEAE	
....FRAGILARIA	
& ....SYNEDRA	
...GOMPHONEMATACEAE	
....GOMPHONEIS	
...NAVICULACEAE	NAVICULOID
....NAVICULA	

NOTE: & - ESTIMATED DOMINANT ORGANISM: NOT ACTUALLY COUNTED
SAMPLING METHOD: PLASTIC SLIDES. TIMED SAMPLING INTERVAL
ANALYSIS METHOD: SLIDE MOUNTING

13023000 GREYS RIVER ABOVE RESERVOIR, NEAR ALPINE, WY

LOCATION.--Lat 43°08'35", long 110°58'34", in SW¼SE¼ sec.34, T.37 N., R.118 W., (unsurveyed), Lincoln County, Hydrologic Unit 17040103, on right bank at Bridge Campground, 3.6 mi (5.8 km) southeast of Alpine, and at mile 3.0 (4.8 km).

DRAINAGE AREA.--448 mi^2 (1,160 km^2). Mean altitude, 8,080 ft (2,460 m).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July to September 1917, June to September 1918, March 1937 to March 1939, October 1953 to current year. Published as Greys River near Alpine, ID, 1917-18 and as Greys River near Alpine, WY, 1937-39.

REVISED RECORDS.--WRD ID 1967: 1966.

GAGE.--Water-stage recorder. Altitude of gage is 5,720 ft (1,740 m), from topographic map. July 6 to Sept. 30, 1917, and June 4 to Sept. 30, 1918, nonrecording gage and Mar. 17, 1937, to Mar. 31, 1939, water-stage recorder, at site 1.8 mi (2.9 km) downstream, and October 1953 to Sept. 22, 1965, water-stage recorder at site 1 mi (1.6 km) downstream at different datums.

REMARKS.--Records fair. Less than 500 acres (202 hm^2) irrigated by diversions from Greys River and tributaries above station.

AVERAGE DISCHARGE.--26 years (1938, 1954-78), 657 ft^3/s (18.61 m^3/s), 19.91 in/yr (506 mm/yr), 476,000 ac-ft/yr (587 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 7,230 ft^3/s (205 m^3/s) June 19, 1971, gage height, 6.33 ft (1.929 m); maximum gage height observed, 19.1 ft (5.82 m), former site and datum, about Dec. 18, 1965 (ice jam); minimum daily discharge, 92 ft^3/s (2.61 m^3/s) Jan. 2, 1978.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,000 ft^3/s (56.6 m^3/s) and maximum (*):

Date	Time	Discharge		Gage height		Date	Time	Discharge		Gage height	
		(ft^3/s)	(m^3/s)	(ft)	(m)			(ft^3/s)	(m^3/s)	(ft)	(m)
May 16	0100	2,860	81.0	4.90	1.494	June 10	1000	*3,950	112	5.63	1.716
May 23	2330	2,710	76.7	4.78	1.457						

Minimum daily discharge, 92 ft^3/s (2.61 m^3/s) Jan. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	204	187	141	98	120	156	770	1320	1880	2390	870	418
2	203	190	209	92	150	157	772	1430	1930	2300	837	406
3	197	189	213	120	170	150	623	1680	2100	2260	802	399
4	193	186	206	150	175	169	552	1530	2170	2190	770	397
5	193	189	187	190	172	169	510	1300	2270	2060	737	389
6	202	196	184	190	179	116	482	1130	2550	1930	717	388
7	215	197	192	180	177	132	506	1050	2790	1850	697	380
8	215	179	170	160	186	155	638	1020	2990	1830	682	384
9	213	129	160	160	169	163	805	1110	3480	1860	660	377
10	208	181	200	165	179	174	821	1400	3530	1840	647	372
11	202	194	193	170	178	171	868	1650	2720	1820	631	393
12	190	190	191	175	184	176	840	1510	2390	1780	622	410
13	190	163	186	175	155	176	794	1510	2520	1700	679	413
14	190	175	208	175	145	176	730	1900	2680	1660	697	397
15	190	173	304	185	140	156	691	2310	2640	1640	626	391
16	190	176	285	180	135	153	753	2420	2650	1610	604	385
17	190	151	242	170	120	163	697	1960	2410	1590	611	380
18	190	148	238	170	110	181	626	1710	2380	1480	583	419
19	186	110	219	170	120	211	599	1630	2370	1380	553	408
20	186	107	170	169	130	245	628	1670	2330	1290	538	404
21	186	104	142	167	135	262	677	1850	2410	1260	523	396
22	185	129	194	170	130	279	634	2090	2580	1190	519	396
23	183	145	217	140	130	275	582	2450	2620	1120	507	396
24	163	173	212	110	160	296	548	2550	2600	1070	494	395
25	183	189	199	125	171	277	620	2300	2540	1040	484	392
26	179	281	200	155	169	275	952	2180	2410	1030	468	391
27	183	256	170	165	132	326	1220	2160	2310	995	451	391
28	183	212	155	165	145	372	1150	2160	2320	987	442	389
29	187	191	175	175	---	442	1090	2350	2420	1000	438	391
30	204	172	185	180	---	499	1200	2270	2470	961	433	391
31	201	---	160	140	---	564	---	2010	---	900	424	---
TOTAL	6004	5262	6107	4936	4266	7216	22378	55610	75460	48013	18746	11838
MEAN	194	175	197	159	152	233	746	1794	2515	1549	605	395
MAX	215	281	304	190	186	564	1220	2550	3530	2390	870	419
MIN	179	104	141	92	110	116	482	1020	1880	900	424	372
AC-FT	11910	10440	12110	9790	8460	14310	44390	110300	149700	95230	37180	23480

CAL YR 1977 TOTAL 84407 MEAN 231 MAX 600 MIN 104 AC-FT 167400
WTR YR 1978 TOTAL 265836 MEAN 728 MAX 3530 MIN 92 AC-FT 527300

13023000 GREYS RIVER ABOVE RESERVOIR, NEAR ALPINE, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1973 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: May 1977 to current year.

INSTRUMENTATION.--Temperature recorder since May 18, 1977.

REMARKS.--No temperature record Mar. 1 to May 8 due to equipment malfunction.

EXTREMES FOR PERIOD OF RECORD.--
WATER TEMPERATURES: Maximum, 21.0°C July 18, 1977.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 15.5°C Aug. 11; minimum, 0.0°C on many days during winter months.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	7.5	5.0	1.5	.0	.0	.0	.0	.0	.0	.0		
2	7.5	3.5	3.0	1.5	.0	.0	.0	.0	.0	.0		
3	8.5	4.5	3.5	1.0	.0	.0	.0	.0	1.0	.0		
4	7.5	4.0	3.5	1.5	.0	.0	.0	.0	1.5	.0		
5	8.0	4.0	4.5	2.5	.0	.0	.0	.0	1.5	.0		
6	7.5	5.5	5.0	4.0	.0	.0	.0	.0	2.0	.5		
7	6.0	4.5	4.0	2.0	.0	.0	.0	.0	1.5	.0		
8	6.5	4.0	2.0	.0	.0	.0	.0	.0	.5	.0		
9	6.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0		
10	6.0	4.0	.0	.0	.0	.0	.0	.0	.0	.0		
11	5.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0		
12	5.5	2.0	1.0	.0	.5	.0	.0	.0	.0	.0		
13	7.0	2.5	1.5	.0	.5	.0	.0	.0	.0	.0		
14	7.5	4.0	2.0	1.0	1.5	.0	.0	.0	.0	.0		
15	7.0	3.5	2.0	1.5	1.5	.0	.0	.0	.0	.0		
16	7.5	3.5	2.0	.5	.0	.0	.0	.0	.0	.0		
17	7.0	3.5	.0	.0	.0	.0	.0	.0	.5	.5		
18	6.5	3.5	.0	.0	.0	.0	1.5	.0	.5	.5		
19	6.5	3.0	.0	.0	.0	.0	.5	.0	1.0	1.0		
20	6.0	3.5	.0	.0	.0	.0	.5	.0	1.5	1.0		
21	6.0	3.0	.0	.0	.0	.0	1.0	.0	1.5	1.5		
22	5.5	2.5	.0	.0	.0	.0	.5	.0	2.0	1.5		
23	5.5	2.0	.0	.0	.0	.0	.0	.0	2.0	2.0		
24	6.0	3.5	.0	.0	.0	.0	.0	.0	4.0	2.0		
25	6.0	3.0	.0	.0	.0	.0	.0	.0	6.5	4.5		
26	6.5	3.5	.0	.0	.0	.0	.0	.0	6.5	4.5		
27	6.0	3.0	.0	.0	.0	.0	.0	.0	6.0	4.0		
28	6.0	3.5	1.5	.0	.0	.0	.0	.0	5.0	3.5		
29	5.0	4.0	1.0	.0	.0	.0	.0	.0	---	---		
30	4.5	2.5	.5	.0	.0	.0	.0	.0	---	---		
31	2.5	1.0	---	---	.0	.0	.0	.0	---	---		
MONTH	8.5	1.0	5.0	.0	1.5	.0	1.5	.0	6.5	.0		

13023000 GREYS RIVER ABOVE RESERVOIR, NEAR ALPINE, WY--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1			---	---	10.0	3.5	11.0	6.0	14.5	9.5	13.5	8.5
2			---	---	8.5	5.0	12.0	6.5	14.0	9.0	13.5	9.0
3			---	---	7.5	5.0	11.5	6.0	14.5	9.5	13.0	9.5
4			---	---	8.0	4.5	11.0	6.5	14.5	9.0	13.5	9.5
5			---	---	10.5	4.5	11.0	6.0	14.5	9.5	14.0	11.0
6			---	---	10.0	4.5	10.5	7.0	15.0	10.0	14.5	11.0
7			---	---	9.5	4.5	12.0	6.0	15.0	10.0	14.5	11.5
8			---	---	11.0	4.5	11.5	7.5	15.0	9.5	13.0	10.0
9			9.5	3.5	10.0	4.5	12.5	7.5	14.5	9.5	12.0	7.5
10			7.0	4.5	8.5	5.0	12.5	7.0	13.5	9.5	11.0	8.5
11			6.0	3.5	8.0	4.5	12.0	7.5	15.5	10.0	9.5	7.5
12			8.5	2.5	9.5	4.0	12.5	7.5	13.5	10.0	8.0	6.0
13			9.5	4.0	11.0	5.5	12.5	7.5	10.5	9.5	7.5	5.5
14			10.0	4.0	10.5	5.0	13.5	8.0	10.5	8.5	10.5	6.5
15			10.0	3.5	10.5	5.0	12.5	9.0	12.0	7.0	10.0	7.0
16			6.0	3.5	8.5	4.5	13.5	9.0	11.0	8.5	11.5	8.5
17			5.5	2.5	10.0	5.0	13.0	8.5	11.0	8.0	10.0	8.0
18			7.0	3.5	9.0	5.0	12.0	7.5	11.5	7.0	7.5	5.0
19			9.0	4.5	9.5	5.5	13.0	8.0	12.5	7.0	7.0	5.0
20			9.5	4.0	11.0	5.0	13.5	9.0	13.0	7.5	8.0	5.0
21			9.5	4.0	11.5	6.0	14.0	9.5	14.0	9.0	8.0	4.0
22			9.0	4.5	11.5	5.5	13.5	8.5	13.0	10.0	9.5	5.0
23			8.5	4.0	11.0	6.0	14.0	9.0	13.0	8.0	10.0	5.5
24			7.5	4.0	11.0	5.5	13.5	9.0	13.0	8.0	10.5	6.0
25			8.0	3.0	9.0	5.5	14.5	9.5	13.0	8.0	10.5	6.5
26			8.5	3.5	10.5	5.0	14.5	9.5	13.0	8.0	10.5	6.5
27			8.5	3.5	11.5	6.0	14.5	9.5	13.0	9.0	11.0	6.5
28			10.0	4.0	12.5	6.0	13.5	10.5	12.0	8.0	9.5	7.5
29			8.0	4.5	11.0	7.5	14.0	10.5	13.0	8.5	10.0	6.5
30			6.5	3.0	11.5	6.0	14.5	10.0	13.0	8.5	9.5	5.0
31			9.0	3.5	---	---	14.0	9.5	12.5	9.5	---	---
MONTH			10.0	2.5	12.5	3.5	14.5	6.0	15.5	7.0	14.5	4.0
YEAR	15.5	.0										

13025000 SWIFT CREEK NEAR AFTON, WY

LOCATION.--Lat 42°43'30", long 110°54'00", in SE¼ sec.29, T.32 N., R.118 W., Lincoln County, Hydrologic Unit 17040105, Bridger National Forest, on right bank 1.0 mi (1.6 km) upstream from mouth of canyon, 1.5 mi (2.4 km) east of Afton, and 4.5 mi (7.2 km) upstream from mouth.

DRAINAGE AREA.--27.4 mi² (71.0 km²).

PERIOD OF RECORD.--October 1942 to current year (no winter records since 1971). Monthly discharge only for some periods, published in WSP 1317.

GAGE.--Water-stage recorder. Altitude of gage is 6,420 ft (1,957 m), from topographic map.

REMARKS.--Records good, except those for period of questionable gage-height record, July 6 to Aug. 9, which is poor. Small powerplant and reservoir, adjudication, 48.45 acre-ft/yr (0.060 hm³/yr), 0.2 mi (0.3 km) upstream. Pipeline, adjudication, 2.5 ft³/s (0.071 m³/s), diverts water above station for town of Afton. No diversion for irrigation above station.

COOPERATION.--Records collected and computed by Office of the Wyoming State Engineer and reviewed by Geological Survey.

AVERAGE DISCHARGE.--29 years (water years 1943-71), 86.9 ft³/s (2.461 m³/s), 62,960 acre-ft/yr (77.6 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 793 ft³/s (22.5 m³/s) July 6, 1975, gage height, 3.78 ft (1.152 m); minimum daily, 20 ft³/s (0.57 m³/s) Dec. 30, 1958.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 390 ft³/s (11.0 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
June 10	0630	454	12.9	3.28	1.000	June 25	0730	*565	16.0	3.47	1.058
June 16	0800	444	12.6	3.26	.994						

Minimum daily discharge during period of operation, 44 ft³/s (1.25 m³/s) Apr. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37						47	58	160	471	184	100
2	37						47	60	152	444	178	98
3	37						46	61	157	417	162	98
4	37						46	61	162	383	162	98
5	37						45	61	178	350	157	98
6	38						45	60	224	327	162	100
7	40						45	57	273	302	162	100
8	38						47	56	298	298	162	96
9	38						47	55	378	315	162	91
10	38						48	56	423	322	157	89
11	38						49	60	340	322	152	89
12	---						48	60	273	332	152	86
13	---						48	61	277	315	155	83
14	---						47	71	327	315	147	80
15	---						47	100	412	315	129	80
16	---						47	125	423	319	125	83
17	---						47	119	363	315	125	85
18	---						47	105	345	310	119	88
19	---						46	98	332	300	115	80
20	---						46	100	306	280	115	78
21	---						46	105	340	270	115	77
22	---						46	119	402	250	121	75
23	---						45	140	444	240	121	77
24	---						44	152	460	230	115	77
25	---						46	150	505	217	111	77
26	---						48	145	402	217	105	77
27	---						49	150	378	204	105	75
28	---						51	155	392	207	104	75
29	---						54	178	438	220	102	74
30	---						56	175	465	207	102	72
31	---						---	168	---	195	102	---
TOTAL	---	---	---	---	---	---	1420	3121	10029	9209	4185	2556
MEAN	---	---	---	---	---	---	47.3	101	334	297	135	85.2
MAX	---	---	---	---	---	---	56	178	505	471	184	100
MIN	---	---	---	---	---	---	44	55	152	195	102	72
AC-FT	---	---	---	---	---	---	2820	6190	19890	18270	8300	5070

13027500 SALT RIVER ABOVE RESERVOIR, NEAR ETNA, WY

LOCATION.--Lat 43°04'47", long 111°02'12", in SW¼NE¼ sec.28, T.36 N., R.119 W., Lincoln County, Hydrologic Unit 17040105, on right bank 3.4 mi (5.5 km) northwest of Etna and at mile 8.0 (12.9 km).

DRAINAGE AREA.--829 mi² (2,147 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1953 to current year.

GAGE.--Water-stage recorder. Datum of gage is 5,675.78 ft (1,729.977 m), National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Diversions above station for power developments, industry, municipal supply, and irrigation of about 60,500 acres (245 km²) of which about 1,000 acres (405 hm²) are below station (1966 determination). For details on adjudication of diversions, see Remarks for this station in WSP 1347.

AVERAGE DISCHARGE.--25 years, 776 ft³/s (21.98 m³/s), 562,200 acre-ft/yr (693 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,870 ft³/s (110 m³/s) June 1, 1971, gage height, 5.30 ft (1.615 m); minimum, 160 ft³/s (4.53 m³/s) Jan. 7, 8, 1971, gage height, 1.53 ft (0.466 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,030 ft³/s (85.8 m³/s) May 16, gage height, 4.81 ft (1.466 m); minimum, 201 ft³/s (5.69 m³/s) Jan. 2, 3, gage height, 1.69 ft (0.515 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	356	331	342	327	327	344	1140	2250	2490	1860	846	724
2	352	331	400	262	329	337	1230	2240	2360	1850	829	716
3	346	331	489	287	333	337	1100	2340	2330	1830	812	708
4	343	330	479	293	331	344	1040	2280	2330	1800	796	701
5	337	332	431	319	336	357	1020	2140	2340	1780	780	678
6	345	332	410	326	347	364	1060	2020	2370	1730	764	678
7	348	333	402	321	341	370	1220	1920	2450	1680	756	678
8	344	340	384	318	344	364	1490	1880	2530	1610	724	693
9	339	331	359	321	341	357	1740	1890	2590	1620	708	693
10	337	328	376	326	348	370	1760	2070	2670	1610	693	678
11	334	329	365	319	354	370	1800	2360	2640	1560	686	701
12	350	340	363	321	349	370	1760	2340	2590	1510	686	679
13	347	339	360	321	335	370	1640	2220	2460	1450	756	714
14	344	338	384	324	341	370	1550	2420	2300	1410	829	700
15	342	347	454	331	344	370	1540	2550	2310	1370	796	613
16	340	347	465	334	337	364	1630	2980	2320	1370	764	642
17	328	340	423	337	324	364	1520	2890	2290	1370	780	639
18	328	340	413	337	324	370	1400	2830	2220	1360	788	738
19	330	343	397	332	337	370	1380	2690	2130	1330	780	645
20	331	323	358	337	337	390	1450	2520	2030	1260	780	702
21	331	314	334	337	331	403	1510	2510	1930	1200	772	678
22	329	349	343	337	324	422	1420	2610	1910	1140	764	708
23	326	349	366	337	324	442	1370	2730	1950	1110	772	669
24	324	348	360	300	331	493	1350	2820	1980	1050	780	707
25	324	363	348	331	337	528	1460	2780	2010	1030	780	688
26	324	420	342	343	344	542	1860	2730	2030	989	748	700
27	320	423	331	339	350	563	2070	2660	1950	939	740	672
28	318	397	306	331	344	605	2020	2630	1840	922	740	679
29	323	380	337	331	---	648	1890	2670	1830	947	732	655
30	337	367	352	328	---	788	2180	2710	1860	922	740	684
31	336	---	346	326	---	888	---	2620	---	897	724	---
TOTAL	10413	10415	11819	10033	9444	13574	45600	76300	67040	42506	23645	20560
MEAN	336	347	381	324	337	438	1520	2461	2235	1371	763	685
MAX	356	423	489	343	354	888	2180	2980	2670	1860	846	738
MIN	318	314	306	262	324	337	1020	1880	1830	897	686	613
AC-FT	20650	20660	23440	19900	18730	26920	90450	151300	133000	84310	46900	40780

CAL YR 1977 TOTAL 131768 MEAN 361 MAX 816 MIN 216 AC-FT 261400
WTR YR 1978 TOTAL 341349 MEAN 935 MAX 2980 MIN 262 AC-FT 677100

13027500 SALT RIVER ABOVE RESERVOIR, NEAR ETNA, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: May 1977 to current year.

INSTRUMENTATION.--Temperature recorder since May 17, 1977.

REMARKS.--No temperature record Feb. 15 to Mar. 31, Apr. 15 to Sept. 12 due to equipment malfunction.

EXTREMES FOR PERIOD OF RECORD.--
WATER TEMPERATURES: Maximum, 18.5°C July 18, 1977.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Minimum, 1.5°C Dec. 20-22, 28, 29, Jan. 1, 2, 3.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	HARD-NESS (MG/L AS CACO3)
OCT									
14...	0730	344	--	--	7.0	1	9.2	K400	230
NOV									
01...	1510	331	447	--	6.0	--	--	--	--
DEC									
01...	0730	324	--	--	.5	0	10.8	K34	240
22...	0730	340	--	--	1.0	2	11.8	22	250
JAN									
22...	0815	538	--	--	2.5	1	--	33	240
FEB									
14...	1115	341	458	--	4.5	--	--	--	--
19...	0830	337	--	--	1.0	1	10.6	K11	250
MAR									
18...	0815	370	--	--	3.0	3	11.1	K6	240
30...	1535	A 788	519	--	10.0	--	--	--	--
APR									
30...	1730	A 2180	--	--	5.0	60	10.4	K250	350
MAY									
12...	0920	2310	441	--	4.5	--	--	--	--
27...	0830	A 2660	400	7.9	6.0	30	9.8	100	200
JUN									
12...	1415	A 2590	391	--	10.0	--	--	--	--
20...	0815	A 2030	390	8.0	12.5	15	9.3	160	200
JUL									
24...	1040	1050	278	--	12.5	--	--	--	--
AUG									
05...	0730	780	490	7.6	10.5	4	7.6	96	220
SEP									
02...	0800	A 716	460	7.7	11.0	2	7.8	140	240
12...	1330	755	466	--	8.0	--	--	--	--

A-Daily mean discharge.
K-Results based on colony count outside the acceptable range (non-ideal colony count).

13027500 SALT RIVER ABOVE RESERVOIR, NEAR ETNA, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)
OCT									
14...	33	62	19	14	.4	1.2	240	0	200
NOV									
01...	--	--	--	--	--	--	--	--	--
DEC									
01...	38	65	19	17	.5	1.1	240	3	200
22...	37	69	20	21	.6	1.1	260	0	210
JAN									
22...	43	64	20	17	.5	1.0	240	0	200
FEB									
14...	--	--	--	--	--	--	--	--	--
19...	45	49	32	22	.6	1.1	250	0	200
MAR									
18...	43	69	19	25	.7	.5	240	0	200
30...	--	--	--	--	--	--	--	--	--
APR									
30...	190	52	11	14	.5	1.2	200	0	170
MAY									
12...	--	--	--	--	--	--	--	--	--
27...	20	58	13	11	.3	1.1	220	0	180
JUN									
12...	--	--	--	--	--	--	--	--	--
20...	31	57	14	11	.3	.1	200	3	170
JUL									
26...	--	--	--	--	--	--	--	--	--
AUG									
05...	23	57	19	12	.4	1.1	240	0	200
SEP									
02...	43	65	16	12	.3	1.3	240	0	200
12...	--	--	--	--	--	--	--	--	--

DATE	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT									
14...	32	17	.2	6.1	272	.37	253	.63	.01
NOV									
01...	--	--	--	--	--	--	--	--	--
DEC									
01...	40	21	.2	5.3	293	.40	256	.86	.00
22...	43	27	.2	8.3	454	.62	417	1.0	.02
JAN									
22...	35	23	.3	13	297	.40	431	.75	.01
FEB									
14...	--	--	--	--	--	--	--	--	--
19...	40	31	.1	9.5	309	.42	281	.72	.02
MAR									
18...	48	33	.1	11	325	.44	325	.66	.02
30...	--	--	--	--	--	--	--	--	--
APR									
30...	23	11	.2	4.3	217	.30	1280	.45	.00
MAY									
12...	--	--	--	--	--	--	--	--	--
27...	21	8.9	.2	5.4	229	.31	1640	.50	.13
JUN									
12...	--	--	--	--	--	--	--	--	--
20...	25	8.9	.1	6.9	227	.31	1240	.66	.04
JUL									
26...	--	--	--	--	--	--	--	--	--
AUG									
05...	35	4.4	.1	4.3	255	.35	537	.63	.12
SEP									
02...	38	3.3	.3	6.1	386	.53	746	.86	.05
12...	--	--	--	--	--	--	--	--	--

13027500 SALT RIVER ABOVE RESERVOIR, NEAR ETNA, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	PCB, TOTAL (UG/L)	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG)	NAPHTHALENES, POLYCHLOR. TUTAL (UG/L)	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BUTTOM MATERIAL (UG/KG)	CHLORDANE, TOTAL (UG/L)	CHLORDANE, TUTAL IN BOTTOM MATERIAL (UG/KG)	DDD, TOTAL (UG/L)	DDD, TUTAL IN BOTTOM MATERIAL (UG/KG)
OCT 14...	0730	.0	--	.00	.00	--	.0	--	.00	--
MAY 27...	0830	.0	0	.00	.00	.0	.0	0	.00	.0

DATE	DDE, TOTAL (UG/L)	DDE, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDT, TOTAL (UG/L)	DDT, TUTAL IN BOTTOM MATERIAL (UG/KG)	DIAZINON, TOTAL (UG/L)	DIELDRIN TOTAL (UG/L)	DIELDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	ENDOSULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)
OCT 14...	.00	--	.00	--	.00	.00	--	.00	.00	--
MAY 27...	.00	.1	.00	.0	.00	.00	.1	.00	.00	.0

DATE	ETHION, TOTAL (UG/L)	HEPTACHLOR, TOTAL (UG/L)	HEPTACHLOR, TOTAL IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR EPOXIDE TOTAL (UG/L)	HEPTACHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOTTOM MATERIAL (UG/KG)	MALATHION, TOTAL (UG/L)	METHYL PARATHION, TOTAL (UG/L)	METHYL TRITHION, TOTAL (UG/L)
OCT 14...	.00	.00	--	.00	--	.00	--	.00	.00	.00
MAY 27...	.00	.00	.0	.00	.1	.00	.0	.00	.00	.00

DATE	PARATHION, TOTAL (UG/L)	TOXAPHENE, TOTAL (UG/L)	TOXAPHENE, TOTAL IN BOTTOM MATERIAL (UG/KG)	TOTAL TRITHION (UG/L)	2,4-D, TOTAL (UG/L)	2,4-D, TOTAL IN BOTTOM MATERIAL (UG/KG)	2,4,5-T TOTAL (UG/L)	2,4,5-T TOTAL IN BOTTOM MATERIAL (UG/KG)	SILVEX, TOTAL (UG/L)	SILVEX, TUTAL IN BOTTOM MATERIAL (UG/KG)
OCT 14...	.00	0	--	.00	.00	--	.00	--	.00	--
MAY 27...	.00	0	0	.00	.00	0	.00	0	.00	.0

DATE	TOTAL DICAMBA (UG/L)	DICAMBA IN BOTTOM MATERIAL (UG/KG)	TOTAL PICLORAM (UG/L)	PICLORAM IN BOTTOM MATERIAL (UG/KG)
MAY 27...	.00	0	.00	0

13027500 SALT RIVER ABOVE RESERVOIR, NEAR ETNA, WY--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	10.0	7.5	8.0	4.0	4.0	2.0	3.5	1.5	6.0	3.5	---	
2	10.5	6.0	8.5	7.5	4.0	2.0	1.5	1.5	6.0	4.5	---	
3	11.0	7.0	10.0	7.0	5.5	4.0	2.5	1.5	6.5	5.0	---	
4	10.5	6.5	9.0	7.5	5.5	4.5	5.0	2.5	6.5	5.0	---	
5	10.5	6.5	10.0	8.5	5.0	4.0	4.5	4.0	5.5	4.0	---	
6	9.0	8.0	11.0	9.0	5.0	4.0	4.0	3.5	7.5	5.0	---	
7	9.0	7.5	9.5	8.0	6.0	4.5	5.0	3.5	6.5	4.5	---	
8	10.0	7.0	7.5	6.0	4.5	2.5	4.5	2.5	6.5	5.0	---	
9	9.5	6.5	6.5	4.0	4.5	2.5	5.0	3.5	5.5	4.0	---	
10	9.5	7.0	8.0	5.5	5.5	3.5	4.5	3.5	5.5	4.5	---	
11	9.0	5.5	8.0	5.5	4.5	3.0	5.5	4.5	5.5	4.5	---	
12	9.5	6.0	8.5	6.0	5.5	4.5	6.0	5.0	6.5	4.0	---	
13	10.0	6.5	8.0	5.5	5.0	4.5	6.0	5.0	5.5	3.0	---	
14	11.0	7.5	7.5	6.5	6.0	5.0	6.0	5.0	5.0	4.0	---	
15	10.5	7.0	7.5	7.0	6.0	5.0	6.0	4.5	---	---	---	
16	10.5	7.0	7.5	6.0	5.0	4.0	6.0	4.5	---	---	---	
17	10.5	7.0	6.0	5.0	4.0	2.5	6.5	5.5	---	---	---	
18	10.5	7.0	5.5	4.0	4.0	3.0	7.0	5.5	---	---	---	
19	9.5	6.5	5.5	3.5	4.5	3.0	5.5	4.0	---	---	---	
20	9.0	7.0	4.5	3.5	3.0	1.5	5.5	4.0	---	---	---	
21	9.0	6.5	4.0	3.0	1.5	1.5	6.0	5.0	---	---	---	
22	9.5	6.5	5.0	3.0	3.0	1.5	5.5	4.5	---	---	---	
23	9.5	6.5	5.5	3.5	3.5	3.0	5.0	3.0	---	---	---	
24	9.0	7.5	5.5	4.5	4.5	2.5	2.5	2.0	---	---	---	
25	10.0	6.5	6.5	5.5	4.5	3.5	4.5	2.5	---	---	---	
26	10.0	7.0	7.5	6.0	4.5	3.0	4.5	2.5	---	---	---	
27	10.0	7.0	6.5	5.5	3.5	2.0	5.5	3.5	---	---	---	
28	9.5	7.5	6.5	5.5	2.5	1.5	6.0	3.5	---	---	---	
29	8.5	7.5	6.0	5.0	4.5	1.5	5.0	4.5	---	---	---	
30	7.5	6.0	5.5	4.0	4.0	3.0	6.0	4.0	---	---	---	
31	6.5	5.5	---	---	4.0	2.5	5.0	4.0	---	---	9.5	
MONTH	11.0	5.5	11.0	3.0	6.0	1.5	7.0	1.5	7.5	3.0	9.5	

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	7.5	5.5									---	---
2	8.0	5.0									---	---
3	8.0	4.5									---	---
4	8.0	5.5									---	---
5	9.5	6.0									---	---
6	9.5	6.5									---	---
7	10.0	7.0									---	---
8	9.5	6.0									---	---
9	9.0	5.5									---	---
10	9.5	5.0									---	---
11	8.5	6.0									---	---
12	8.5	4.5									---	---
13	7.5	5.0									8.0	6.5
14	7.5	5.5									10.0	7.0
15	---	5.5									10.5	7.5
16	---	---									11.5	8.5
17	---	---									10.5	5.0
18	---	---									8.5	6.0
19	---	---									8.0	5.5
20	---	---									8.5	---
21	---	---									9.0	5.5
22	---	---									10.0	6.5
23	---	---									11.0	6.5
24	---	---									11.5	7.0
25	---	---									12.0	7.5
26	---	---									11.5	7.5
27	---	---									11.5	7.5
28	---	---									11.0	8.5
29	---	---									10.5	7.5
30	---	---									10.5	7.0
31	---	---									---	---
MONTH	10.0	4.5									12.0	5.0
YEAR	12.0	1.5										

13046500 GRASSY LAKE NEAR MORAN, WY

LOCATION.--Lat 44°07'45", long 110°49'05", in NE¼ sec.18, T.48 N., R.116 W., Teton County, Hydrologic Unit 17040203, in gatehouse at dam 0.4 mi (0.6 km) upstream from mouth on Grassy Creek, which is tributary to headwaters of Falls River, and 25.4 mi (40.9 km) northwest of Moran, WY.

DRAINAGE AREA.--10.4 mi² (26.9 km²), including basin of Cascade Creek, from which water is diverted into Grassy Lake.

PERIOD OF RECORD.--October 1939 to current year.

GAGE.--Mercury pressure gage. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Bureau of Reclamation).

REMARKS.--Reservoir is formed by earth-fill, rock-faced dam; storage began Oct. 18, 1939. Capacity, 15,200 acre-ft (18.7 hm³) between elevations 7,135.0 ft (2,174.75 m), sill of trashrack, and 7,210.0 ft (2,197.61 m), crest of spillway. Water is used for irrigation of lands in Fremont-Madison irrigation district, ID. Gage read about twice monthly. Records given herein represent usable contents.

COOPERATION.--Gage-height record and capacity table furnished by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 15,400 acre-ft (19.0 hm³) July 2, 1943, elevation, 7,210.85 ft (2,197.867 m); no contents Oct. 2-5, 1940.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 15,200 acre-ft (18.7 hm³) June 23, elevation, 7,210.20 ft (2,197.669 m); minimum observed, 6,990 acre-ft (8.62 hm³) Oct. 20, 25, elevation, 7,179.90 ft (2,188.434 m).

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	ELEVATION (FEET)	CONTENTS (ACRE-FEET	CHANGE IN CONTENTS (ACRE-FEET)
Sept. 30	-	a6,850	-
Oct. 31	-	a7,050	+200
Nov. 30	-	a7,440	+390
Dec. 31	-	a8,060	+620
CALENDAR YEAR 1977	-	-	-2,340
Jan. 31	7,186.30	8,530	+470
Feb. 28	-	a8,880	+350
Mar. 31	-	a9,280	+400
Apr. 30	-	a10,100	+820
May 31	-	a13,000	+2,900
June 30	-	a15,100	+2,100
July 31	-	a14,700	-400
Aug. 31	-	a12,700	-2,000
Sept. 30	-	a12,100	-600
WATER YEAR 1978	-	-	+5,250

a No gage-height record.

Crest-stage partial-record stations

The following table contains annual maximum discharges for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained, and discharge measurements may have been made for purposes of establishing the stage-discharge relation, but these are not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

Annual maximum discharge at crest-stage partial-record stations

Station No.	Station Name	Location	Drainage area (sq mi)	Period of Record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
		Green River basin					
09204700	Sand Springs Draw tributary near Boulder, WY	Lat 42°35'07", long 109°37'23", in SW¼NE¼ sec.8, T.30 N., R.107 W., Sublette County, at culvert on U.S. Highway 187 and 12.4 miles southeast of Boulder.	2.77	1961-78	4-27-78	4.49	5
09207650	Dry Basin Creek near Big Piney, WY	Lat 42°25'28", long 110°06'35", in SW¼NW¼ sec.12, T.28 N., R.112 W., Sublette County, just downstream from bridge on U.S. Highway 89, about 2,000 ft upstream from mouth, and 7.8 miles south of Big Piney.	47.2	1971-78	5-17-78	3.34	150
09211300	Fourmile Gulch tributary near Fontenelle, WY	Lat 42°03'09", long 109°59'40", in SW¼SE¼ sec.15, T.24 N., R.111 W., Sweetwater County, 0.7 mile upstream from Lincoln-Sweetwater Road and 6.0 miles northeast of Fontenelle.	14.2	1971-78	4-30-78	5.43	7
09216290	East Otterson Wash near Green River, WY	Lat 41°47'04", long 109°44'03", in SE¼SW¼NE¼ sec.23, T.21 N., R.109 W., Sweetwater County, 0.1 mile downstream from dirt road, 0.9 mile upstream from mouth, and 21 miles northwest of Green River.	16.6	1969-78	6- 5-78	6.88	236
09216350	Skunk Canyon Creek near Green River, WY	Lat 41°43'55", long 109°30'39", in NW¼NE¼ sec.8, T.20 N., R.107 W., Sweetwater County, 0.4 mile upstream from mouth and 14.0 miles north of Green River.	15.7	1965, 1971-78	6- 5-78	4.23	7
a09216537	Delaney Draw near Red Desert, WY	Lat 41°38'22", long 108°07'43", in SW¼NE¼ sec.8, T.19 N., R.95 W., Sweetwater County, 1.0 mile southwest of Red Desert and 1.7 miles upstream from culvert on Interstate Highway 80. Oct. 1, 1960, to Sept. 30, 1969, at site 1.6 miles downstream and Oct. 1, 1969, to Sept. 30, 1976, at site 0.4 mile downstream at different datums.	34.5	1961-78	5-17-78	11.11	30
a09216550	Deadman Wash near Point of Rocks, WY	Lat 41°40'30", long 108°44'10", in SE¼ sec.25, T.20 N., R.101 W., Sweetwater County, at bridge on old U.S. Highway 30 and 2.8 miles east of Point of Rocks.	152	1962-78	4-29-78	6.19	310
a09216576	Gap Creek below Beans Spring Creek, near South Baxter, WY	Lat 41°12'25", long 109°03'09", in NW¼NW¼SE¼ sec.7, T.14 N., R.103 W., Sweetwater County, 0.1 mile upstream from county bridge, 0.5 mile south of Titsworth Springs, 12 miles south of of South Baxter, and 28 miles south of Rock Springs.	35.9	1976[‡], 1977-78	5- 5-78	2.14	16
09216580	Big Flat Draw near Rock Springs, WY	Lat 41°18'57", long 108°53'50", in NE¼NW¼NE¼ sec.4, T.15 N., R.102 W., Sweetwater County, 0.3 mile upstream from mouth and 25 miles southeast of Rock Springs.	19.5	1973-78	9-17-78	13.44	13

See footnotes at end of table, p.

Annual maximum discharge at crest-stage partial-record stations--Continued

					Annual maximum		
Station No.	Station Name	Location	Drainage area (sq mi)	Period of Record	Date	Gage height (feet)	Discharge (cfs)
		Green River basin--Continued					
09216600	Cutthroat Draw near Rock Springs, WY	Lat 41°27'25", long 108°56'30", in NW¼ sec.17, T.17 N., R.102 W., Sweetwater County, at culvert on State Highway 430 and 17 miles southeast of Rock Springs.	7.88	1959-78	9-17-78	5.90	90
a09216695	No Name Creek near Rock Springs, WY	Lat 41°28'54", long 108°58'17", in SW¼SW¼NE¼ sec.1, T.17 N., R.103 W., Sweetwater County, 700 ft upstream from mouth and 15 miles southeast of Rock Springs.	18.2	1973-78	9-17-78	15.85	75
09216900	Bitter Creek tributary near Green River, WY	Lat 41°31'58", long 109°22'49", in SE¼SW¼ sec.16, T.18 N., R.106 W., Sweetwater County, at culvert on U.S. Highway 30 and 4 miles east of Green River.	1.65	1959-78	5-17-78	15.07	(*)
a09221680	Mud Spring Hollow near Church Butte, near Lyman, WY	Lat 41°23'05", long 110°11'12", in SW¼NE¼ sec.7, T.16 N., R.113 W., Uinta County, on left bank 0.4 mile upstream from culvert on U.S. Highway 30S and 6.7 miles northeast of Lyman.	8.83	1965-78	6- 4-78	1.60	49
09224600	Blacks Fork tributary near Granger, WY	Lat 41°32'04", long 109°56'11", in SE¼SW¼ sec.15, T.18 N., R.111 W., Sweetwater County, at culvert on U.S. Highway 30S and 4.3 miles south of Granger. (Peaks after 1966 affected by small stockwater reservoir 0.1 mile upstream.)	5.03	1959-78	4-27-78	5.88	39
09224800	Meadow Springs Wash tributary near Green River, WY	Lat 41°32'37", long 109°45'36", in SE¼NW¼ sec.18, T.18 N., R.109 W., Sweetwater County, at culvert on Interstate Highway 80 and 15 miles west of Green River. Prior to Oct. 1, 1970, 150 ft upstream at culvert on U.S. Highway 30.	5.22	1962-65, 1968-78	8-14-78	1.73	38
09224810	Blacks Fork tributary No. 2 near Green River, WY	Lat 41°27'35", long 109°37'20", in SW¼SE¼ sec.8, T.17 N., R.108 W., Sweetwater County, 600 ft upstream from dirt road, 1.3 miles upstream from mouth, and 8.7 miles southwest of Green River.	12.0	1965-78	8-14-78	6.02	62
09224820	Blacks Fork tributary No. 3 near Green River, WY	Lat 41°25'30", long 109°36'55", in SW¼NW¼ sec.28, T.17 N., R.108 W., Sweetwater County, 50 ft upstream from dirt road, 1 mile upstream from mouth, and 10.5 miles southwest of Green River.	3.59	1965-78	8-14-78	6.01	14
09224840	Blacks Fork tributary No. 4 near Green River, WY	Lat 41°24'40", long 109°36'05", in SE¼NE¼ sec.33, T.17 N., R.108 W., Sweetwater County, 700 ft downstream from dirt road, 1 mile upstream from mouth, and 10.9 miles southwest of Green River.	1.26	1965-78	8-14-78	5.55	28
09224980	Summers Dry Creek near Green River, WY	Lat 41°22'25", long 109°38'40", in NW¼NE¼ sec.13, T.16 N., R.109 W., Sweetwater County, 600 ft downstream from Little Dry Creek, 1.6 miles upstream from mouth, and 14.2 miles southwest of Green River.	423	1965-78	4-27-78	7.84	890

See footnotes at end of table, p.

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station Name	Location	Drainage area (sq mi)	Period of Record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
Green River basin--Continued							
a09225200	Squaw Hollow near Burntfork, WY	Lat 41°10'14", long 109°36'34", in NE¼NW¼ sec.29, T.14 N., R.108 W., Sweetwater County, 0.1 mile downstream from culvert on State Highway 530, 2.1 miles upstream from normal pool level of Flaming Gorge Reservoir, and 22 miles northeast of Burntfork. Prior to Oct. 1, 1969, at site 0.1 mile upstream at different datum.	6.57	1965-78	9-18-78	12.42	45
09225300	Green River tributary No. 2 near Burntfork, WY	Lat 41°03'40", long 109°37'05", in NE¼SE¼ sec.31, T.13 N., R.108 W., Sweetwater County, 200 ft downstream from State Highway 530, 7.4 miles northeast of Manila, UT, and 20.6 miles east of Burntfork. Prior to Oct. 1, 1971, at site 300 ft upstream at datum 10.00 ft higher.	13.0	1959, 1961-78	6- 4-78	14.29	1,450
a09258200	Dry Cow Creek near Baggs, WY	Lat 41°20'24", long 107°40'14", in SE¼SE¼ sec.19, T.16 N., R.91 W., Carbon County, 1.6 miles upstream from county road, 4.3 miles upstream from mouth, and 21 miles north of Baggs.	49.7	1970-78	4- 1-78	5.93	72
Bear River basin							
10019700	Whitney Canyon Creek near Evanston, WY	Lat 41°25'42", long 110°58'21", in SE¼NW¼ sec.27, T.17 N., R.120 W., Uinta County, at culvert on dirt road and 11.1 miles north of Evanston.	8.93	1965-78	9-18-78	5.83	74
Hoback River basin							
13019220	Sour Moose Creek near Bondurant, WY	Lat 43°09'00", long 110°15'20", in N½ sec.26, T.37 N., R.112 W., Sublette County, Teton National Forest, at culvert on U.S. Highway 187, and 9.5 miles southeast of Bondurant.	2.77	1964-78	5-16-78	5.78	19

‡ Operated as a continuous-record gaging station.
† Discharge not determined.
a Water-quality data is published elsewhere in this report.

Discharge measurements made at miscellaneous sites during water year 1978

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
		Green River Basin				
North Fork Little Snake River diversion to Hog Park Creek 09251750	Transbasin diversions between North Fork Little Snake River and Hog Park Creek	Lat 41°02'17", long 106°53'16", in NW¼SW¼ sec.6, T.12 N., R.84 W., Carbon County, below outlet, just upstream from Hog Park Creek, and 13 miles southwest of Encampment.		1966-77	11-01-77 6-06-78 7-21-78 8-23-78 9-29-78	1.19 52.3 17.2 3.30 1.50

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

425601110084501 GREEN RIVER ABOVE FORTY ROD CREEK, NEAR DANIEL, WY (LAT 42 56 01 LONG 110 08 45)

DATE	TIME	TEMPERATURE (DEG C)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)
OCT											
19...	1400	9.0	210	110	58	15	3.1	.1	1.0	120	0

DATE	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)
OCT											
19...	98	120	.9	.2	4.0	261	.36	.01	.00	.00	29

DATE	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)
OCT											
19...	.25	29	29	.25	.04	.00	.00	.00	10	20	8

425230110034601 GREEN RIVER AT DANIEL, WY (LAT 42 52 30 LONG 110 03 46)

DATE	TIME	TEMPERATURE (DEG C)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)
OCT											
19...	1445	9.0	210	93	60	15	3.5	.1	1.2	140	2
MAR											
31...	1135	3.5	260	120	76	18	3.9	.1	1.5	180	0

DATE	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)
OCT											
19...	120	100	1.1	.2	4.6	257	.35	.01	.00	.00	.09
MAR											
31...	150	130	1.6	--	7.0	327	.44	.01	--	--	--

DATE	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)
OCT											
19...	.17	.09	.00	.17	.00	.03	.00	.00	20	10	10
MAR											
31...	--	.27	.00	.27	.01	--	.01	.03	--	40	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

425133110033001 HORSE CREEK NEAR MOUTH, AT DANIEL, WY (LAT 42 51 33 LONG 110 03 30)

DATE	TIME	TEMPERATURE (DEG C)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBUNATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)
OCT 19...	1452	9.0	260	40	66	22	8.6	.2	1.9	260	1
MAR 31...	1140	.0	250	8	62	22	9.3	.3	2.5	290	0

DATE	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)
OCT 19...	220	57	1.8	.1	8.5	295	.40	.00	.00	.00	.16
MAR 31...	240	25	3.1	--	9.1	276	.38	.01	--	--	--

DATE	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)
OCT 19...	.21	.16	.00	.21	.00	.01	.00	.00	30	20	8
MAR 31...	--	.44	.00	.44	.01	--	.00	.00	--	50	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

425859110364001 NORTH HORSE CREEK ABOVE MULE CREEK, NEAR SHERMAN RANGER STATION, WY (LAT 42 58 59 LONG 110 36 40)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)
JUN											
27...	1610	200	85	8.2	7.0	30	8.8	49	2	16	2.3
AUG											
04...	1645	3.0	250	8.2	19.0	1	8.8	110	0	37	5.1

DATE	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
JUN											
27...	4.3	.3	.5	58	0	48	5.8	3.4	.1	3.6	65
AUG											
04...	3.2	.1	.8	140	0	110	7.6	.4	.1	4.8	128

DATE	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)
JUN										
27...	.09	35.1	.04	.18	.43	.61	.12	.04	.02	.06
AUG										
04...	.17	1.0	.03	.00	.13	.13	.02	.02	.01	.03

DATE	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)	PHYTOPLANKTON, TOTAL (CELLS PER ML)	INVERTEBRATES, BENTHIC WET WT. (G/SQ METER)	BIOMASS CHLOROPHYLL RATIO PLANKTON (UNITS)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)
JUN										
27...	20	10	5	450	.0	2984000	.051	.000	--	--
AUG										
04...	10	<10	2	360	.4	3118000	.044	.000	10	.08

425859110364001 NORTH HORSE CREEK ABOVE MULE CREEK, NEAR SHERMAN RANGER STATION, WY--Continued
(LAT 42 58 59 LONG 110 36 40)

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO AUGUST 1978

DATE	JUN 27,78	AUG 4,78
TIME	1610	1645
TOTAL CELLS/ML	450	360
DIVERSITY: DIVISION	1.2	0.6
.CLASS	1.2	0.6
..ORDER	1.4	0.6
...FAMILY	1.5	0.7
....GENUS	1.5	0.7

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)				
.CHLOROPHYCEAE				
..CHLOROCOCCALES				
...CHARACIACEAE				
....SCHROEDERIA	--	-	4	1
...OOCYSTACEAE				
....ANKISTRODESMUS	--	-	4	1
...SCENEDESMACEAE				
....SCENEDESMUS	43	9	--	-
..VOLVOCALES				
...CHLAMYDOMONADACEAE				
....CHLAMYDOMONAS	16	4	4	1
CHRYSOPHYTA				
.BACILLARIOPHYCEAE				
..CENTRALES				
...COSCINODISCACEAE				
....CYCLOTELLA	48	11	11	3
....MELOSIRA	--	-	7	2
..PENNALES				
...ACHNANTHACEAE				
....COCCONEIS	--	-	4	1
...NAVICULACEAE				
....NAVICULA	21	5	--	-
...NITZSCHIACEAE				
....NITZSCHIA	5	1	--	-
...SURIRELLACEAE				
....SURIRELLA	--	-	4	1
CYANOPHYTA (BLUE-GREEN ALGAE)				
.CYANOPHYCEAE				
..HORMOGONALES				
...OSCILLATORIACEAE				
....OSCILLATORIA	320#	71	320#	90

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

425859110364001 NORTH HORSE CREEK ABOVE MULE CREEK, NEAR SHERMAN RANGER STATION, WY--Continued
(LAT 42 58 59 LONG 110 36 40)

JUNE 27, 1978
1610 HOURS

PERIPHYTON IDENTIFICATION

ORGANISM NAME	COMMON NAME
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...ACHNANTHACEAE	
....RHOICOSPHENIA	
...CYMBELLACEAE	
....CYMBELLA	
...FRAGILARIACEAE	
....FRAGILARIA	
& ....SYNEDRA	
...MERIDIONACEAE	
....MERIDION	
...NAVICULACEAE	NAVICULOID
& ....NAVICULA	
...NITZSCHIACEAE	
....NITZSCHIA	
...SURIRELLACEAE	
....SURIRELLA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: GLASS CHAMBER(12MM CIRC), INVERTED MICROSCOPE

BENTHIC INVERTEBRATE ANALYSES, OCTOBER 1977 TO AUGUST 1978

DATE	JUN 27,78	AUG 4,78
TIME	1610	1645
TOTAL COUNT	6	4
DIVERSITY: PHYLUM	0.0	0.0
.CLASS	0.0	0.0
..ORDER	1.5	0.8
...FAMILY	1.5	1.5
....GENUS	1.5	1.5
....GENUS-INSECTA	1.5	1.5

ORGANISM	COUNT	COUNT
ARTHROPODA (ARTHROPODS)		
.INSECTA		
..DIPTERA		
...CHIRONOMIDAE		
....PARATANYTARSUS	2	--
....PSEUDODIAMESA	--	1
...SIMULIIDAE		
....UNKNOWN GENUS	--	2
..EPHEMEROPTERA		
...EPHEMERELLIDAE		
....EPHEMERELLA	--	1
...HEPTAGENIIDAE		
....HEPTAGENIA	3	--
..PLECOPTERA		
...NEMOURIDAE		
....NEMOURA	1	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

425040110303001 HORSE CREEK ABOVE SHERMAN RANGER STATION, WY (LAT 42 50 40 LONG 110 30 30)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	UXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACU3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)
JUN 27...	1710	400	230	8.2	11.0	30	8.4	65	1	21	3.0
AUG 04...	1630	5.0	270	8.2	18.0	1	8.2	130	0	42	6.2

DATE	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	PUTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM UF CONSTITUENTS, DISSOLVED (MG/L)
JUN 27...	2.3	.1	.5	78	0	64	8.8	.7	.1	3.9	79
AUG 04...	3.5	.1	.8	160	0	130	10	.5	.1	4.8	147

DATE	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)
JUN 27...	.11	85.3	.02	.12	.46	.58	.13	.03	.01	.03
AUG 04...	.20	1.9	.01	.00	.27	.27	.01	.01	.01	.03

DATE	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)	PHYTOPLANKTON, TOTAL (CELLS PER ML)	INVERTEBRATES, BENTHIC WET WT. (G/SQ METER)	BIOMASS CHLOROPHYLL RATIO PLANKTON (UNITS)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)
JUN 27...	10	20	5	--	.2	2755000	.051	.000	--	--
AUG 04...	20	<10	4	150	.1	876400	.199	.079	11	.15

PHYTOPLANKTON ANALYSES, OCTUBER 1977 TO AUGUST 1978

DATE	AUG 4,78
TIME	1630
TOTAL CELLS/ML	150
DIVERSITY: DIVISION	0.2
.CLASS	0.2
..ORDER	0.2
...FAMILY	0.2
....GENUS	0.2

ORGANISM	CELLS /ML	PERCENT
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..CENTRALES		
...COSCINODISCACEAE		
....CYCLOTELLA	4	2
CYANOPHYTA (BLUE-GREEN ALGAE)		
.CYANOPHYCEAE		
..HORMOGONALES		
...USCILLATURIACEAE		
....OSCILLATORIA	140#	98

NUTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

425040110303001 HORSE CREEK ABOVE SHERMAN RANGER STATION, WY--Continued (LAT 42 50 40 LONG 110 30 30)

AUG. 4, 1978
1630 HOURS

PERIPHYTON IDENTIFICATION

_ORGANISM__NAME_______________	_COMMON__NAME______
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..CHLOROCOCCALES	
...OOCYSTACEAE	
....ANKISTRODESMUS	
...SCENEDESMACEAE	
....SCENEDESMUS	
..ULOTRICHALES	
...ULOTRICHACEAE	
& ....ULOTHRIX	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..CENTRALES	CENTRIC
...COSCINODISCACEAE	
....MELOSIRA	
..PENNALES	PENNATE
...ACHNANTHACEAE	
....ACHNANTHES	
....COCCONEIS	
....RHOICOSPHENIA	
...CYMBELLACEAE	
....AMPHORA	
....CYMBELLA	
....EPITHEMIA	
...FRAGILARIACEAE	
....HANNAEA	
....SYNEDRA	
...GOMPHONEMATACEAE	
....GOMPHONEIS	
& ....GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
....NAVICULA	
....NEIDIUM	
...NITZSCHIACEAE	
....NITZSCHIA	
...SURIRELLACEAE	
....SURIRELLA	
CYANOPHYTA	BLUE-GREEN ALGAE
.CYANOPHYCEAE	
..HORMOGONALES	FILAMENTOUS BL-GREEN
...NOSTOCACEAE	
....ANABAENA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: SLIDE MOUNTING, INVERTED MICROSCOPE

BENTHIC INVERTEBRATE ANALYSES, UCTOBER 1977 TO AUGUST 1978

DATE	JUN 27,78	AUG 4,78
TIME	1710	1630
TOTAL COUNT	5	13
DIVERSITY: PHYLUM	0.0	0.0
.CLASS	0.0	0.0
..ORDER	1.4	0.8
...FAMILY	1.9	1.1
....GENUS	2.3	1.1
....GENUS-INSECTA	2.3	1.1

ORGANISM	CUUNT	COUNT
ARTHROPODA (ARTHROPODS)		
.INSECTA		
..COLEUPTERA		
...ELMIDAE		
....UPTIOSERVUS	--	1
..DIPTERA		
...CHIRONOMIDAE		
....DIAMESA	--	1
....STICTOCHIRONOMUS	1	--
...SIMULIIDAE		
....SIMULIUM	--	10
..EPHEMEROPTERA		
...EPHEMERELLIDAE		
....EPHEMERELLA	1	--
...HEPTAGENIIDAE		
....EPEORUS	1	--
....STENONEMA	1	--
..PLECUPTERA		
...CHLORUPERLIDAE		
....HASTAPERLA	1	--
..TRICHOPTERA		
...BRACHYCENTRIDAE		
....BRACHYCENTRUS	--	1

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

09189500 HORSE CREEK AT SHERMAN RANGER STATION, WY (LAT 42 56 40 LONG 110 23 20)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	UXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
JUN 27...	1800	450	150	8.2	12.0	40	8.8	74	0	24	3.5
AUG 04...	1515	10	290	8.4	18.0	1	8.2	140	2	45	7.1

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
JUN 27...	1.8	.1	.5	97	0	80	4.1	.4	.1	4.3	87
AUG 04...	3.4	.1	.8	170	0	140	11	.8	.1	5.0	157

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + URGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)
JUN 27...	.12	106	.04	.14	.56	.70	.31	.08	.05	.15
AUG 04...	.21	4.2	.01	.00	.32	.32	.01	.01	.00	.00

DATE	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	PHYTO-PLANK-TON, TOTAL (CELLS PER ML)	IN-VERTE-BRATES, BENTHIC WET WT. (G/SQ METER)	BIOMASS CHLORO-PHYLL RATIO PLANK-TON (UNITS)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN 27...	10	10	6	--	1.5	--	.000	.000	--	--
AUG 04...	40	10	10	850	.0	1389000	.106	.049	9	.24

GREEN RIVER BASIN

09189500 HORSE CREEK AT SHERMAN RANGER STATION, WY--Continued (LAT 42 56 40 LONG 110 23 20)

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO AUGUST 1978

DATE	AUG 4,78	
TIME	1515	
TOTAL CELLS/ML	850	
DIVERSITY: DIVISION	1.0	
.CLASS	1.0	
..ORDER	1.6	
...FAMILY	1.8	
....GENUS	1.8	
ORGANISM	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..VOLVOCALES		
...CHLAMYDOMONADACEAE		
....CHLAMYDOMONAS	160#	19
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..CENTRALES		
...COSCINODISCACEAE		
....CYCLOTELLA	480#	56
..PENNALES		
...NAVICULACEAE		
....NAVICULA	53	6
...NITZSCHIACEAE		
....NITZSCHIA	110	13
EUGLENOPHYTA (EUGLENOIDS)		
.EUGLENOPHYCEAE		
..EUGLENALES		
...EUGLENACEAE		
....EUGLENA	53	6

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

GREEN RIVER BASIN

09189500 HORSE CREEK AT SHERMAN RANGER STATION, WY--Continued (LAT 42 56 40 LONG 110 23 20)

AUG. 4, 1978
1515 HOURS

PERIPHYTON IDENTIFICATION

ORGANISM NAME	COMMON NAME
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..CHLOROCOCCALES	
...OOCYSTACEAE	
....ANKISTRODESMUS	
..TETRASPORALES	
...PALMELLACEAE	
....SPHAEROCYSTIS	
..ULOTRICHALES	
...ULOTRICHACEAE	
& ....ULOTHRIX	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..CENTRALES	CENTRIC
...COSCINODISCACEAE	
....MELOSIRA	
..PENNALES	PENNATE
...ACHNANTHACEAE	
....RHOICOSPHENIA	
...CYMBELLACEAE	
....CYMBELLA	
....EPITHEMIA	
...DIATOMACEAE	
....DIATOMA	
...FRAGILARIACEAE	
....HANNAEA	
....SYNEDRA	
...GOMPHONEMATACEAE	
....GOMPHONEIS	
& ....GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
....NAVICULA	
....NEIDIUM	
...NITZSCHIACEAE	
....NITZSCHIA	
...SURIRELLACEAE	
....SURIRELLA	
CYANOPHYTA	BLUE-GREEN ALGAE
.CYANOPHYCEAE	
..HORMOGONALES	FILAMENTOUS BL-GREEN
...NOSTOCACEAE	
....ANABAENA	
...OSCILLATORIACEAE	
....OSCILLATORIA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: SLIDE MOUNTING, INVERTED MICROSCOPE

BENTHIC INVERTEBRATE ANALYSES, OCTOBER 1977 TO AUGUST 1978

DATE	JUN 27,78	AUG 4,78
TIME	1800	1515
TOTAL COUNT	9	0
DIVERSITY: PHYLUM	0.0	0.0
.CLASS	0.0	0.0
..ORDER	1.2	0.0
...FAMILY	2.1	0.0
....GENUS	2.1	0.0
....GENUS-INSECTA	2.1	0.0

ORGANISM	COUNT	COUNT
ARTHROPODA (ARTHROPODS)		
.INSECTA		
..DIPTERA		
...TIPULIDAE		
....DICRANOTA	1	--
..EPHEMEROPTERA		
...BAETIDAE		
....BAETIS	4	--
...EPHEMERELLIDAE		
....EPHEMERELLA	1	--
...HEPTAGENIIDAE		
....EPEORUS	1	--
..PLECOPTERA		
...NEMOURIDAE		
....NEMOURA	2	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

09190000 HORSE CREEK NEAR DANIEL, WY (LAT 42 55 40 LONG 110 12 00)

DATE	TIME	TEMPERATURE (DEG C)	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)
OCT 02...	1300	5.0	5.0	11	.15

425020109581801 GREEN RIVER BELOW HORSE CREEK, NEAR DANIEL, WY (LAT 42 50 20 LONG 109 58 18)

DATE	TIME	TEMPERATURE (DEG C)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)
OCT 19...	1455	8.5	220	91	60	16	4.0	.1	1.3	150	1

DATE	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITRUGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)
OCT 19...	120	97	1.1	.2	4.6	259	.35	.00	.00	.00	.22

DATE	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)
OCT 19...	.21	.22	.01	.21	.02	.01	.00	.00	20	70	4

424532109575601 GREEN RIVER BELOW LUMAN DITCH, NEAR BIG PINEY, WY (LAT 42 45 32 LONG 109 57 56)

DATE	TIME	TEMPERATURE (DEG C)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)
OCT 19...	1456	9.0	210	87	58	15	4.3	.1	1.3	140	3

DATE	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)
OCT 19...	120	98	1.1	.2	4.6	255	.35	.00	.00	.00	.05

DATE	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)
OCT 19...	.14	.05	.00	.14	.00	.01	.00	.00	20	20	4

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

423000110290001 NORTH COTTONWOOD CREEK NEAR LA BARGE, WY (LAT 42 30 00 LONG 110 29 00)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)
OCT											
18...	1650	6.0	380	8.3	7.0	1	9.4	200	5	56	15

DATE	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
OCT											
18...	4.0	.1	.6	240	0	200	6.9	1.0	.1	5.7	208

DATE	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT											
18...	.28	3.3	.03	.01	.00	.13	.11	.14	.03	.11	.01

DATE	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)	PHYTOPLANKTON, TOTAL (CELLS PER ML)	INVERTEBRATES, BENTHIC WET WT. (G/SQ METER)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)
OCT										
18...	.00	.01	.03	10	20	20	160	3.1	12	.19

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

423000110290001 NORTH COTTONWOOD CREEK NEAR LA BARGE, WY (LAT 42 30 00 LONG 110 29 00)--Continued

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PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

        DATE                                   OCT 18,77
        TIME                                     1650

        TOTAL CELLS/ML                            160

        DIVERSITY: DIVISION                       0.2
                   .CLASS                         0.2
                   ..ORDER                        0.2
                   ...FAMILY                      2.2
                   ....GENUS                      2.3

                                            CELLS  PER-
         ORGANISM                            /ML   CENT

        CHLOROPHYTA (GREEN ALGAE)
        .CHLOROPHYCEAE
        ..CHLOROCOCCALES
        ...OOCYSTACEAE
        ....ANKISTRODESMUS                     6    4

        CHRYSOPHYTA
        .BACILLARIOPHYCEAE
        ..PENNALES
        ...ACHNANTHACEAE
        ....ACHNANTHES                        17   11

        ...FRAGILARIACEAE
        ....SYNEDRA                           70#  43
        ...GOMPHONEMATACEAE
        ....GOMPHONEMA                        29#  18
        ...NAVICULACEAE
        ....CALONEIS                           6    4
        ....NAVICULA                           6    4
        ...NITZSCHIACEAE
        ....NITZSCHIA                         29#  18

        NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
              * - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%
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                          OCT. 18, 1977
                           1650 HOURS

                    PERIPHYTON IDENTIFICATION

     _ORGANISM__NAME______________   _COMMON__NAME______

     CHLOROPHYTA                     GREEN ALGAE
     .CHLOROPHYCEAE
     ..ULOTRICHALES
     ...CHAETOPHORACEAE
   & ....DRAPARNALDIA
     ...MICROSPORACEAE
   & ....MICROSPORA
     ..ZYGNEMATALES
     ...ZYGNEMATACEAE
     ....SPIROGYRA
     CHRYSOPHYTA
     .BACILLARIOPHYCEAE              DIATOMS
     ..PENNALES                      PENNATE
     ...ACHNANTHACEAE
     ....COCCONEIS
     ...CYMBELLACEAE
     ....AMPHORA
     ....CYMBELLA
     ...FRAGILARIACEAE
   & ....FRAGILARIA
   & ....SYNEDRA
     ...GOMPHONEMATACEAE
   & ....GOMPHONEMA
     ...MERIDIONACEAE
     ....MERIDION
     ...NAVICULACEAE                 NAVICULOID
     ....NAVICULA
     ....NEIDIUM
     ...NITZSCHIACEAE
     ....NITZSCHIA
     ...SURIRELLACEAE
     ....CYMATOPLEURA

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
      ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE
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GREEN RIVER BASIN

423000110290001 NORTH COTTONWOOD CREEK NEAR LA BARGE, WY (LAT 42 30 00 LONG 110 29 00)--Continued

BENTHIC INVERTEBRATE ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 18,77
TIME	1650
TOTAL COUNT	139
DIVERSITY: PHYLUM	0.2
.CLASS	0.3
..ORDER	2.2
...FAMILY	2.8
....GENUS	3.9
....GENUS-INSECTA	3.8

ORGANISM	COUNT
ARTHRUPO(ARTHROPODS	
.INSECTA	
..PLECOPTERA	
...NEMOURIDAE	
....NEMOURA	3
..COLEOPTERA	
...ELMIDAE	
....HETERLIMNIUS	7
..DIPTERA	
...CHIRONOMIDAE	
....CONCHAPELOPIA	1
....CORYNONEURA	7
....DIAMESA	1
....EUKIEFFERIELLA	5
....MACROPELOPIA	1
....ORTHOCLADIUS	21
....PUTTHASTIA	2
....PSEUDODIAMESA	9
....RHEOTANYTARSUS	12
...PSYCHODIDAE	
....PERICOMA	1
...TIPULIDAE	
....HEXATOMA	1
..EPHEMEROPTERA	
...BAETIDAE	
....PSEUDOCLOEON	16
...EPHEMERELLIDAE	
....EPHEMERELLA	2
...HEPTAGENIIDAE	
....HEPTAGENIA	6
....RHITHROGENA	1
...LEPTOPHLEBIIDAE	
....PARALEPTOPHLEBIA	7
..TRICHOPTERA	
...BRACHYCENTRIDAE	
....MICRASEMA	1
...RHYACOPHILIDAE	
....RHYACOPHILA	14
..PLECOPTERA	
...PERLIDAE	
....ACRONEURIA	15
.ARACHNIDA	
..HYDRACARINA	
...UNKNOWN FAMILY	
....UNKNOWN GENUS #3	3
NEMATODA (NEMATODES)	
.UNKNOWN CLASS	
..UNKNOWN ORDER	
...UNKNOWN FAMILY	
....UNKNOWN GENUS	1
PLATYHELMINTHES (FLATWORMS)	
.TURBELLARIA	
..TRICLADIDA	
...PLANARIIDAE	
....POLYCELIS	
.....P.CORONATA	
	2

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

424740110264001 SOUTH COTTONWOOD CREEK NEAR COTTONWOOD GUARD STATION, WY (LAT 42 47 40 LONG 110 26 40)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)
OCT 19...	1300	8.3	500	8.3	5.0	0	9.8	270	110	74	20

DATE	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 105 DEG. C, DISSOLVED (MG/L)
OCT 19...	2.5	.1	.5	190	0	160	110	.7	.1	5.0	330

DATE	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)
OCT 19...	307	.42	6.9	1	.00	.00	.00	.02	.05	.02

DATE	NITROGEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHURUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	PHYTOPLANKTON, TOTAL (CELLS PER ML)	INVERTEBRATES, BENTHIC WET WT. (G/SQ METER)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)
OCT 19...	.00	.05	.00	.01	.00	.00	220	.2	5	.11

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BORON, DISSOLVED (UG/L AS B)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)
OCT 19...	1300	30	0	0	9	0	10	0

DATE	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	ZINC, DISSOLVED (UG/L AS ZN)
OCT 19...	130	0	20	.0	1	0	0	0

DATE	TIME	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DISSOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DISSOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DISSOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DISSOLVED (UG/L AS U)
OCT 19...	1300	<2.7	<.4	1.2	<.4	1.0	<.4	.04	.5

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

424740110264001 SOUTH COTTONWOOD CREEK NEAR COTTONWOOD GUARD STATION, WY--Continued
(LAT 42 47 40 LONG 110 26 40)

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 19,77
TIME	1300
TOTAL CELLS/ML	220
DIVERSITY: DIVISION	1.1
.CLASS	1.1
..ORDER	1.7
...FAMILY	2.1
....GENUS	2.3

ORGANISM	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...OOCYSTACEAE		
....ANKISTRODESMUS	9	4
....OOCYSTIS	5	2
..ZYGNEMATALES		
...ZYGNEMATACEAE		
....MOUGEOTIA	5	2
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...ACHNANTHACEAE		
....ACHNANTHES	5	2
...CYMBELLACEAE		
....CYMBELLA	5	2
...FRAGILARIACEAE		
....SYNEDRA	5	2
...NAVICULACEAE		
....NAVICULA	5	2
....NEIDIUM	5	2
...NITZSCHIACEAE		
....NITZSCHIA	23	11
CYANOPHYTA (BLUE-GREEN ALGAE)		
.CYANOPHYCEAE		
..CHROOCOCCALES		
...CHROOCOCCACEAE		
....ANACYSTIS	19	9
....COCCOCHLORIS	9	4
..HORMOGONALES		
...OSCILLATORIACEAE		
....SCHIZOTHRIX	130#	57

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

424740110264001 SOUTH COTTONWOOD CREEK NEAR COTTONWOOD GUARD STATION, WY--Continued
(LAT 42 47 40 LONG 110 26 40)

OCT. 19, 1977
1330 HOURS

IDENTIFICATION OF PERIPHYTON

ORGANISM NAME	COMMON NAME
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..CLADOPHORALES	
...CLADOPHORACEAE	
& ....RHIZOCLONIUM	
..OEDOGONIALES	
...OEDOGONIACEAE	
....OEDOGONIUM	
..ZYGNEMATALES	
...DESMIDIACEAE	PLACODERM DESMIDS
....CLOSTERIUM	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...ACHNANTHACEAE	
& ....COCCONEIS	
...CYMBELLACEAE	
....CYMBELLA	
...FRAGILARIACEAE	
....HANNAEA	
....SYNEDRA	
...GOMPHONEMATACEAE	
....GOMPHONEIS	
....GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
....GYROSIGMA	
& ....NAVICULA	
....PINNULARIA	
...NITZSCHIACEAE	
....NITZSCHIA	
...SURIRELLACEAE	
....SURIRELLA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

BENTHIC INVERTEBRATE ANALYSES, UCTOBER 1977 TU OCTOBER 1977

DATE	OCT 19,77
TIME	1300
TOTAL COUNT	95
DIVERSITY: PHYLUM	0.0
.CLASS	0.3
..ORDER	1.4
...FAMILY	1.9
....GENUS	2.3
....GENUS-INSECTA	2.2

...CHIRONOMIDAE	COUNT
....BRILLIA	1
....CRICOTOPUS	5
....ORTHOCLADIUS	1
....PSEUDODIAMESA	2
....RHEOTANYTARSUS	1
....SMITTIA	1
...PSYCHODIDAE	
....PERICOMA	3
...SIMULIIDAE	
....SIMULIUM	1
..EPHEMEROPTERA	
...BAETIDAE	
....BAETIS	3
....PSEUDOCLOEON	59
...EPHEMERELLIDAE	
....EPHEMERELLA	2
...SIPHLONURIDAE	
....AMELETUS	1
..PLECOPTERA	
...UNKNOWN FAMILY	
....UNKNOWN GENUS	3
..TRICHOPTERA	
...RHYACOPHILIDAE	
....RHYACOPHILA	3
...LIMNEPHILIDAE	
....DICOSMOECUS	5
.ARACHNIDA	
..HYDRACARINA	
...UNKNOWN FAMILY	
....UNKNOWN GENUS #3	4

GREEN RIVER BASIN

424000109592001 COTTONWOOD CREEK NEAR BIG PINEY, WY (LAT 42 40 00 LONG 109 59 20)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO
MAR									
31...	1155	E40	.0	290	59	61	33	22	.6

E-Estimate.

DATE	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)
MAR									
31...	4.1	280	0	230	110	5.7	9.1	383	.52

DATE	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	IRON, DISSOLVED (UG/L AS FE)
MAR									
31...	41	.01	.73	.34	.39	.02	.00	.00	80

09204000 SILVER CREEK NEAR BIG SANDY, WY (LAT 42 45 00 LONG 109 31 00)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)
OCT										
19...	1715	532	370	8.9	10.0	2	9.4	160	27	44

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)
OCT										
19...	13	18	.6	1.6	160	3	140	62	4.2	.2

DATE	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 105 DEG. C, DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)
OCT										
19...	6.6	230	232	.32	333	1	.08	.00	.00	.07

DATE	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)
OCT										
19...	.07	.07	.00	.07	.01	.00	.00	.00	5	7.2

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

09204000 SILVER CREEK NEAR BIG SANDY, WY (LAT 42 45 00 LONG 109 31 00)--Continued

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BORON, DISSOLVED (UG/L AS B)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)
OCT 19...	1715	10	1	0	40	0	10	0

DATE	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	ZINC, DISSOLVED (UG/L AS ZN)
OCT 19...	20	0	20	.0	1	0	0	0

DATE	TIME	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DISSOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DISSOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DISSOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DISSOLVED (UG/L AS U)
OCT 19...	1715	<2.4	<.4	2.9	<.4	2.3	<.4	.08	1.0

424002109460001 SAND SPRINGS DRAW NEAR BOULDER, WY (LAT 42 40 02 LONG 109 46 00)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)
MAR 31...	1025	E9.0	318	8.4	4.5	200	23	0	7.4	1.0

E-Estimate.

DATE	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
MAR 31...	66	6.0	1.7	100	0	82	61	9.9	4.8	201

DATE	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	IRON, DISSOLVED (UG/L AS FE)
MAR 31...	.27	4.8	.00	1.1	.22	.88	.90	.09	.28	70

DATE	TIME	TEMPERATURE (DEG C)	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM
MAR 31...	1025	4.5	E9.0	463	11	59	85	100

E-Estimate.

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

423600109530001 TRIBUTARY TO NEW FORK RIVER NEAR BIG PINEY, WY (LAT 42 36 00 LONG 109 53 00)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO
MAR										
26...	1000	E2.5	1.0	150	20	0	5.3	1.7	39	3.8

E-Estimate.

DATE	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)
MAR									
26...	3.3	110	1	92	16	4.6	4.3	133	.18

DATE	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	IRON, DISSOLVED (UG/L AS FE)
MAR									
26...	.90	.53	4.4	1.1	3.3	3.8	.08	.25	1000

DATE	TIME	TEMPERATURE (DEG C)	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM
MAR										
26...	1000	1.0	E2.5	7820	53	35	44	75	93	100

E-Estimate.

423153109594301 GREEN RIVER BELOW NEW FORK RIVER, NEAR BIG PINEY, WY (LAT 42 31 53 LONG 109 59 43)

DATE	TIME	TEMPERATURE (DEG C)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)
OCT											
19...	1517	9.0	140	27	41	10	11	.4	1.6	140	1
MAR											
31...	1205	.0	170	35	45	15	52	1.7	3.0	170	0

DATE	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)
OCT											
19...	120	52	2.2	.2	6.8	195	.27	.01	.00	.00	.33
MAR											
31...	140	140	12	--	7.5	359	.49	.02	--	--	--

DATE	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)
OCT											
19...	.19	.33	.14	.19	.01	.01	.00	.00	20	10	4
MAR											
31...	--	2.1	1.7	.37	.04	--	.01	.03	--	90	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

423220109582001 ALKALI CREEK NEAR BIG PINEY, WY (LAT 42 32 20 LONG 109 58 20)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO
MAR									
26...	1020	E9.0	1.5	32	0	7.8	3.1	36	2.8

E-Estimate.

DATE	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)
MAR									
26...	2.4	110	1	92	23	2.0	6.2	138	.19

DATE	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	IRON, DISSOLVED (UG/L AS FE)
MAR									
26...	3.3	.32	3.6	3.3	.31	3.0	.11	.34	440

DATE	TIME	TEMPERATURE (DEG C)	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM
MAR									
26...	1020	1.5	E9.0	8100	197	67	84	98	100

E-Estimate.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

423035110210001 SOUTH PINEY CREEK NEAR SNIDER BASIN RANGER STATION, WY (LAT 42 30 35 LONG 110 21 00)

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
OCT											
18...	1425	9.4	465	7.9	7.0	1	10.8	260	110	68	23

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
OCT											
18...	2.9	.1	.7	190	0	160	100	1.1	.3	5.7	295

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)
OCT										
18...	.40	7.4	.01	.01	.00	.01	.05	.02	.05	.01

DATE	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	PHYTO-PLANK-TON, TOTAL (CELLS PER ML)	IN-VERTE-BRATES, BENTHIC WET WT. (G/SQ METER)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
OCT										
18...	.00	.00	.00	20	10	40	710	.1	22	.56

GREEN RIVER BASIN

423035110210001 SOUTH PINEY CREEK NEAR SNIDER BASIN RANGER STATION, WY--Continued
(LAT 42 30 35 LONG 110 21 00)

DATE	OCT 18,77
TIME	1425
TOTAL CELLS/ML	710
DIVERSITY: DIVISION	1.5
.CLASS	1.5
..ORDER	1.7
...FAMILY	2.2
....GENUS	2.7

ORGANISM	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...UOCYSTACEAE		
....CHLORELLA	8	1
..VULVOCALES		
...CHLAMYDOMONADACEAE		
....CHLAMYDOMONAS	8	1
..ZYGNEMATALES		
...ZYGNEMATACEAE		
....MOUGEOTIA	200#	28
....SPIROGYRA	140#	20
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...CYMBELLACEAE		
....CYMBELLA	8	1
...FRAGILARIACEAE		
....SYNEDRA	72	10
...NAVICULACEAE		
....NAVICULA	24	3
...NITZSCHIACEAE		
....NITZSCHIA	150#	22
CRYPTOPHYTA (CRYPTOMONADS)		
.CRYPTOPHYCEAE		
..CRYPTOMONADALES		
...CRYPTO,ONADACEAE		
....CRYPTOMONAS	8	1
...CRYPTOCHRYSIDACEAE		
....RHODOMONAS	8	1
CYANOPHYTA (BLUE-GREEN ALGAE)		
.CYANOPHYCEAE		
..HORMOGONALES		
...OSCILLATORIACEAE		
....SCHIZOTHRIX	64	9
EUGLENOPHYTA (EUGLENOIDS)		
.EUGLENOPHYCEAE		
..EUGLENALES		
...EUGLENACEAE		
....TRACHELOMONAS	8	1

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

423035110210001 SOUTH PINEY CREEK NEAR SNIDER BASIN RANGER STATION, WY--Continued
(LAT 42 30 35 LONG 110 21 00)

OCT. 18. 1977
1425 HOURS

PERIPHYTON IDENTIFICATION

	ORGANISM NAME	COMMON NAME
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..ZYGNEMATALES	
	...ZYGNEMATACEAE	
&	....SPIROGYRA	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
	....COCCONEIS	
	...CYMBELLACEAE	
	....CYMBELLA	
	....EPITHEMIA	
	...DIATOMACEAE	
	....DIATOMA	
	...FRAGILARIACEAE	
	....FRAGILARIA	
	....SYNEDRA	
	...GOMPHONEMATACEAE	
	....GOMPHONEIS	
	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
	....AMPHIPLEURA	
	....CALONEIS	
&	....GYROSIGMA	
&	....NAVICULA	
	....NEIDIUM	
	....PINNULARIA	
	...NITZSCHIACEAE	
&	....NITZSCHIA	
	...SURIRELLACEAE	
	....CYMATOPLEURA	
	....SURIRELLA	

NOTE: & - ESTIMATED DOMINANT ORGANISM: NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING. INVERTED MICROSCOPE

BENTHIC INVERTEBRATE ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 18,77
TIME	1425
TOTAL COUNT	45
DIVERSITY: PHYLUM	0.0
.CLASS	0.2
..ORDER	1.1
...FAMILY	1.4
....GENUS	2.7
....GENUS-INSECTA	2.6

ORGANISM	COUNT
ARTHROPODA (ARTHROPODS)	
.INSECTA	
..DIPTERA	
...CHIRONOMIDAE	
....CRICOTOPUS	2
....MICROPSECTRA	9
....PENTANEURA	2
....PSECTROTANYPUS	1
....PSEUDODIAMESA	1
....RHEOTANYTARSUS	20
...TIPULIDAE	
....ANTOCHA	1
..EPHEMEROPTERA	
...BAETIDAE	
....BAETIS	1
...EPHEMERELLIDAE	
....EPHEMERELLA	1
...HEPTAGENIIDAE	
....HEPTAGENIA	1
...LEPTOPHLEBIIDAE	
....PARALEPTOPHLEBIA	1
..HEMIPTERA	
...CORIXIDAE	
....SIGARA	3
..PLECOPTERA	
...CHLOROPERLIDAE	
....ALLOPERLA	1
.ARACHNIDA	
..HYDRACARINA	
...UNKNOWN FAMILY	
....UNKNOWN GENUS #3	1

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

423300110283001 FISH CREEK NEAR SNIDER BASIN RANGER STATION, WY (LAT 42 33 00 LONG 110 28 30)

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)
OCT 18...	1530	3.7	360	8.1	6.0	0	16.4	200	39	50	19	2.7

DATE	SODIUM AD-SORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)
OCT 18...	.1	.5	200	0	150	41	.8	.1	4.8	218	.30	2.1

DATE	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)
OCT 18...	.00	.00	.00	.04	.03	.04	.01	.03	.00	.01	.00

DATE	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)	PHYTOPLANKTON, TOTAL (CELLS PER ML)	INVERTEBRATES, BENTHIC WET WT. (G/SQ METER)	BIOMASS CHLOROPHYLL RATIO PLANKTON (UNITS)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)
OCT 18...	.00	20	10	4	950	.8	200000	.005	.002	36	.36

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 18,77
TIME	1530
TOTAL CELLS/ML	950
DIVERSITY: DIVISION	0.0
.CLASS	0.0
..ORDER	0.0
...FAMILY	1.4
....GENUS	1.4

ORGANISM	CELLS /ML	PERCENT
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...ACHNANTHACEAE		
....COCCONEIS	95	10
...FRAGILARIACEAE		
....SYNEDRA	660#	70
...NAVICULACEAE		
....NAVICULA	95	10
...NITZSCHIACEAE		
....NITZSCHIA	95	10

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

423300110283001 FISH CREEK NEAR SNIDER BASIN RANGER STATION, WY (LAT 42 33 00 LONG 110 28 30)--Continued

OCT. 18, 1977
1530 HOURS

PERIPHYTON IDENTIFICATION

_ORGANISM__NAME_______________	_COMMON__NAME_______
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..CLADOPHORALES	
...CLADOPHORACEAE	
....CLADOPHORA	
..ULOTRICHALES	
...MICROSPORACEAE	
....MICROSPORA	
..ZYGNEMATALES	
...DESMIDIACEAE	PLACODERM DESMIDS
....CLOSTERIUM	
....COSMARIUM	
...ZYGNEMATACEAE	
....SPIROGYRA	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..CENTRALES	CENTRIC
...COSCINODISCACEAE	
....MELOSIRA	
..PENNALES	PENNATE
...ACHNANTHACEAE	
....ACHNANTHES	
& ....COCCONEIS	
....RHOICOSPHENIA	
...CYMBELLACEAE	
....CYMBELLA	
....EPITHEMIA	
...FRAGILARIACEAE	
....FRAGILARIA	
& ....SYNEDRA	
...GOMPHONEMATACEAE	
....GOMPHONEIS	
....GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
....AMPHIPLEURA	
....CALONEIS	
....GYROSIGMA	
....NAVICULA	
...NITZSCHIACEAE	
....NITZSCHIA	
...SURIRELLACEAE	
....CYMATOPLEURA	
....SURIRELLA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

423300110283001 FISH CREEK NEAR SNIDER BASIN RANGER STATION, WY (LAT 42 33 00 LONG 110 28 30)--Continued

BENTHIC INVERTEBRATE ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 18,77
TIME	1530
TOTAL COUNT	141
DIVERSITY: PHYLUM	0.0
.CLASS	0.1
..ORDER	1.8
...FAMILY	2.8
....GENUS	3.6
....GENUS-INSECTA	3.5

ORGANISM	COUNT
ARTHROPO(ARTHROPODS	
.INSECTA	
..PLECOPTERA	
...NEMOURIDAE	
....NEMOURA	1
..COLEOPTERA	
...DRYOPIDAE	
....HELICHUS	1
...ELMIDAE	
....OPTIOSERVUS	2
..DIPTERA	
...CHIRONOMIDAE	
....BRILLIA	1
....CONCHAPELOPIA	1
....CORYNONEURA	8
....CRICOTOPUS	1
....EUKIEFFERIELLA	1
....ORTHOCLADIUS	7
....SPANIOTOMA	
.....SPANIOTOMA SP. G	4
...EMPIDIDAE	
....CHELIFERA	1
...TIPULIDAE	
....ANTOCHA	1
..EPHEMEROPTERA	
...BAETIDAE	
....BAETIS	13
....PSEUDOCLOEON	33
...EPHEMERELLIDAE	
....EPHEMERELLA	9
...HEPTAGENIIDAE	
....CINYGMULA	24
....RHITHROGENA	3
..PLECOPTERA	
...CHLOROPERLIDAE	
....UNKNOWN GENUS	1
..TRICHOPTERA	
...GLOSSOSOMATIDAE	
....ANAGAPETUS	11
...HYDROPSYCHIDAE	
....ARCTOPSYCHE	2
...RHYACOPHILIDAE	
....RHYACOPHILA	2
..PLECOPTERA	
...PERLODIDAE	
....ISOGENUS	13
.ARACHNIDA	
..HYDRACARINA	
...UNKNOWN FAMILY	
....UNKNOWN GENUS #3	1

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

422909110210001 BEAVER CREEK NEAR BIG PINEY, WY (LAT 42 29 09 LONG 110 21 00)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)
OCT 18...	1320	.58	400	8.0	6.5	1	9.2	230	6	53	23	2.7

DATE	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)
OCT 18...	.1	.9	270	0	220	15	1.6	.1	5.9	236	.32	.37

DATE	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)
OCT 18...	.05	.02	.00	.17	.24	.19	.00	.24	.02	.02	.00

DATE	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)	PHYTOPLANKTON, TOTAL (CELLS PER ML)	INVERTEBRATES, BENTHIC WET WT. (G/SQ METER)	BIOMASS CHLOROPHYLL RATIO PLANKTON (UNITS)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)
OCT 18...	.00	30	20	40	77	.4	31910	.094	.030	13	.02

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 18,77
TIME	1320
TOTAL CELLS/ML	77
DIVERSITY: DIVISION	0.6
.CLASS	0.6
..ORDER	0.8
...FAMILY	1.9
....GENUS	1.9

ORGANISM	CELLS /ML	PERCENT
CHLOROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...SCENEDESMACEAE		
....SCENEDESMUS	6	8
..VOLVOCALES		
...CHLAMYDOMONADACEAE		
....SPHAERELLOPSIS	6	8
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...FRAGILARIACEAE		
....SYNEDRA	6	8
...NAVICULACEAE		
....NAVICULA	24#	31
...NITZSCHIACEAE		
....NITZSCHIA	36#	46

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

422909110210001 BEAVER CREEK NEAR BIG PINEY, WY (LAT 42 29 09 LONG 110 21 00)--Continued

OCT. 18, 1977
1320 HOURS

IDENTIFICATION OF PERIPHYTON

ORGANISM NAME	COMMON NAME
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..ZYGNEMATALES	
...ZYGNEMATACEAE	
....SPIROGYRA	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..CENTRALES	CENTRIC
...COSCINODISCACEAE	
....MELOSIRA	
..PENNALES	PENNATE
...CYMBELLACEAE	
....AMPHORA	
....CYMBELLA	
....EPITHEMIA	
....RHOPALODIA	
...GOMPHONEMATACEAE	
....GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
....FRUSTULIA	
....GYROSIGMA	
....NAVICULA	
...NITZSCHIACEAE	
& ....NITZSCHIA	
...SURIRELLACEAE	
....CYMATOPLEURA	
....SURIRELLA	
CYANOPHYTA	BLUE-GREEN ALGAE
.CYANOPHYCEAE	
..HORMOGONALES	FILAMENTOUS BL-GREEN
...NOSTOCACEAE	
& ....ANABAENA	
...SCYTONEMATACEAE	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

422909110210001 BEAVER CREEK NEAR BIG PINEY, WY (LAT 42 29 09 LONG 110 21 00)--Continued

BENTHIC INVERTEBRATE ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 18,77
TIME	1320
TOTAL COUNT	403
DIVERSITY: PHYLUM	0.5
.CLASS	0.5
..ORDER	1.1
...FAMILY	1.5
....GENUS	3.0
....GENUS-INSECTA	2.7

ORGANISM	COUNT
ANNELIDA	
.OLIGOCHAETA	
..UNKNOWN ORDER	
...UNKNOWN FAMILY	
....UNKNOWN GENUS #5	2
ARTHROPO(ARTHROPODS	
.INSECTA	
..PLECOPTERA	
...NEMOURIDAE	
....NEMOURA	1
..COLEOPTERA	
...DYTISCIDAE	
....DERONECTES	2
...ELMIDAE	
....OPTIOSERVUS	1
..DIPTERA	
...CERATOPOGONIDAE	
....UNKNOWN GENUS	7
...CHIRONOMIDAE	
....CRICOTOPUS	82
....ODONTOMESA	2
....PENTANEURA	28
....POLYPEDILUM	110
....PSECTROTANYPUS	79
...LIRIOPEIDAE	
....LIRIOPE	8
...PSYCHODIDAE	
....PERICOMA	2
...TABANIDAE	
....CHRYSOPS	3
..EPHEMEROPTERA	
...BAETIDAE	
....BAETIS	4
...LEPTOPHLEBIIDAE	
....UNKNOWN GENUS	1
..HEMIPTERA	
...CORIXIDAE	
....PSEUDOCORIXA	29
..MEGALOPTERANS	
...SIALIDAE	
....SIALIS	3
..TRICHOPTERA	
...LEPIDOSTOMATIDAE	
....LEPIDOSTOMA	1
.ARACHNIDA	
..HYDRACARINA	
...UNKNOWN FAMILY	
....UNKNOWN GENUS #3	2
MOLLUSCA (MOLLUSCS)	
.BIVALVIA	
..NUCULOIDEA	
...SPHAERIIDAE	
....PISIDIUM	36

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

423610110283001 MIDDLE FORK PINEY CREEK AT FOREST BOUNDARY, NEAR LA BARGE, WY (LAT 42 36 10 LONG 110 28 30)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)
OCT 18...	1430	6.3	460	8.5	9.0	0	8.5	240	98	61	21	2.3

DATE	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 105 DEG. C, DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
OCT 18...	.1	.5	170	1	140	97	1.2	.1	5.4	300	273

DATE	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)
OCT 18...	.37	4.6	<1	.00	.01	.00	.34	.05	.35	.30	.05

DATE	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	PHYTOPLANKTON, TOTAL (CELLS PER ML)	INVERTEBRATES, BENTHIC WET WT. (G/SQ METER)	BIOMASS CHLOROPHYLL RATIO PLANKTON (UNITS)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)
OCT 18...	.01	.01	.00	.00	92	1.0	28170	.071	.026	7	.12

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BORON, DISSOLVED (UG/L AS B)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)
OCT 18...	1430	10	1	0	9	0	10	0

DATE	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	ZINC, DISSOLVED (UG/L AS ZN)
OCT 18...	10	2	4	.0	1	0	0	0

DATE	TIME	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DISSOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DISSOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DISSOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DISSOLVED (UG/L AS U)
OCT 18...	1430	<3.7	<.4	1.6	<.4	1.3	<.4	.38	.6

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

423610110283001 MIDDLE FORK PINEY CREEK AT FOREST BOUNDARY, NEAR LA BARGE, WY--Continued

(LAT 42 36 10 LONG 110 28 30)

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 18,77
TIME	1430
TOTAL CELLS/ML	92
DIVERSITY: DIVISION	1.5
.CLASS	1.5
..ORDER	1.7
...FAMILY	2.5
....GENUS	2.6

ORGANISM	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...OOCYSTACEAE		
....ANKISTRODESMUS	5	6
....CHLORELLA	11	12
..VULVOCALES		
...CHLAMYDOMONADACEAE		
....CHLAMYDOMONAS	5	6
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...FRAGILARIACEAE		
....SYNEDRA	16#	18
...NAVICULACEAE		
....NAVICULA	11	12
...NITZSCHIACEAE		
....NITZSCHIA	22#	24
CYANOPHYTA (BLUE-GREEN ALGAE)		
.CYANOPHYCEAE		
..HORMOGONALES		
...OSCILLATORIACEAE		
....SCHIZOTHRIX	22#	24

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

OCT. 18, 1977
1430 HOURS

PERIPHYTON IDENTIFICATION

	_ORGANISM__NAME_______________	_COMMON__NAME______
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
	....ACHNANTHES	
	....COCCONEIS	
	....RHOICOSPHENIA	
	...CYMBELLACEAE	
	....AMPHORA	
	....CYMBELLA	
	...FRAGILARIACEAE	
&	....SYNEDRA	
	...GOMPHONEMATACEAE	
	....GOMPHONEIS	
	...NAVICULACEAE	NAVICULOID
	....AMPHIPLEURA	
	....CALONEIS	
	....DIPLONEIS	
	....GYROSIGMA	
&	....NAVICULA	
	....PINNULARIA	
	...NITZSCHIACEAE	
&	....NITZSCHIA	
	...SURIRELLACEAE	
	....CYMATOPLEURA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

423610110283001 MIDDLE FORK PINEY CREEK AT FOREST BOUNDARY, NEAR LA BARGE, WY--Continued
(LAT 42 36 10 LONG 110 28 30)

BENTHIC INVERTEBRATE ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 18,77
TIME	1430
TOTAL COUNT	290
DIVERSITY: PHYLUM	0.4
.CLASS	0.4
..ORDER	2.5
...FAMILY	3.2
....GENUS	3.5
....GENUS-INSECTA	3.3

ORGANISM	COUNT
ANNELIDA	
.OLIGOCHAETA	
..UNKNOWN ORDER	
...UNKNOWN FAMILY	
....UNKNOWN GENUS #5	5
ARTHROPO(ARTHROPODS	
.INSECTA	
..PLECOPTERA	
...NEMOURIDAE	
....NEMOURA	1
.CRUSTACEA	
..PODOCOPA	
...UNKNOWN FAMILY	
....UNKNOWN GENUS	2
.INSECTA	
..COLEOPTERA	
...ELMIDAE	
....HETERLIMNIUS	67
..DIPTERA	
...CHIRONOMIDAE	
....BRILLIA	3
....CORYNONEURA	9
....EUKIEFFERIELLA	2
....PSEUDODIAMESA	2
....SPANIOTOMA	
.....SPANIOTOMA SP. G	1
...PSYCHODIDAE	
....PERICOMA	3
...SIMULIIDAE	
....SIMULIUM	1
..EPHEMEROPTERA	
...BAETIDAE	
....BAETIS	1
....PSEUDOCLOEON	18
...EPHEMERELLIDAE	
....EPHEMERELLA	23
...HEPTAGENIIDAE	
....CINYGMULA	18
....RHITHROGENA	31
..PLECOPTERA	
...CHLOROPERLIDAE	
....UNKNOWN GENUS	40
..TRICHOPTERA	
...BRACHYCENTRIDAE	
....BRACHYCENTRUS	1
...GLOSSOSOMATIDAE	
....GLOSSOSOMA	43
...HYDROPSYCHIDAE	
....ARCTOPSYCHE	1
...RHYACOPHILIDAE	
....RHYACOPHILA	7
..PLECOPTERA	
...PERLODIDAE	
....ARCYNOPTERYX	1
...TAENIOPTERYGIDAE	
....BRACHYPTERA	1
MOLLUSCA ()	
.BIVALVIA	
..NUCULOIDEA	
...SPHAERIIDAE	
....UNKNOWN GENUS	4
PLATYHELMINTHES (FLATWORMS)	
.TURBELLARIA	
..TRICLADIDA	
...PLANARIIDAE	
....POLYCELIS	
.....P.CORONATA	5

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

423130110043001 NORTH PINEY CREEK AT MOUTH, NEAR BIG PINEY, WY (LAT 42 31 30 LONG 110 04 30)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO
MAR 27...	1030	E105	1.0	20	410	99	63	62	200	4.3

E-Estimate.

DATE	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)
MAR 27...	10	380	1	310	440	50	10	1020	1.39

DATE	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	IRON, DISSOLVED (UG/L AS FE)
MAR 27...	289	.06	2.1	.80	1.3	.25	.01	.03	270

09205500 NORTH PINEY CREEK NEAR MASON, WY (LAT 42 39 30 LONG 110 20 30)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)
OCT 18...	1545	11	450	8.4	9.0	0	8.9	240	65	64	20

DATE	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)
OCT 18...	3.6	.1	.7	210	3	180	65	1.1	.1	5.3

DATE	SOLIDS, RESIDUE AT 105 DEG. C, DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)
OCT 18...	250	266	.36	7.9	1	.00	.00	.00	.05	.05

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	PHYTOPLANKTON, TOTAL (CELLS PER ML)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)
OCT 18...	.05	.00	.05	.01	.00	.00	.00	160	8	.24

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

09205500 NORTH PINEY CREEK NEAR MASON, WY (LAT 42 39 30 LONG 110 20 30)--Continued

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BORON, DISSOLVED (UG/L AS B)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)
OCT 18...	1545	30	1	0	20	0	10	0

DATE	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	ZINC, DISSOLVED (UG/L AS ZN)
OCT 18...	10	0	4	.0	1	0	0	0

DATE	TIME	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DISSOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DISSOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DISSOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DISSOLVED (UG/L AS U)
OCT 18...	1545	<3.3	<.4	1.8	<.4	1.4	<.4	.07	.7

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 18,77
TIME	1545
TOTAL CELLS/ML	160
DIVERSITY: DIVISION	0.9
.CLASS	0.9
..ORDER	1.1
...FAMILY	2.4
....GENUS	2.4

ORGANISM	CELLS /ML	PERCENT
CHLOROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..VOLVOCALES		
...CHLAMYDOMONADACEAE		
....CHLAMYDOMONAS	9	6
..ZYGNEMATALES		
...DESMIDIACEAE		
....STAURASTRUM	9	6
...ZYGNEMATACEAE		
....MOUGEOTIA	35#	22
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...ACHNANTHACEAE		
....ACHNANTHES	9	6
...CYMBELLACEAE		
....AMPHORA	9	6
...NAVICULACEAE		
....NAVICULA	43#	28
...NITZSCHIACEAE		
....NITZSCHIA	43#	28

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

09205500 NORTH PINEY CREEK NEAR MASON, WY (LAT 42 39 30 LONG 110 20 30)--Continued

OCT. 18, 1977
1545 HOURS

IDENTIFICATION OF PERIPHYTON

ORGANISM NAME	COMMON NAME
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..ULOTRICHALES	
...MICROSPORACEAE	
....MICROSPORA	
...ULOTRICHACEAE	
& ....ULOTHRIX	
..ZYGNEMATALES	
...DESMIDIACEAE	PLACODERM DESMIDS
....COSMARIUM	
....STAURASTRUM	
...ZYGNEMATACEAE	
....SPIROGYRA	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...CYMBELLACEAE	
....CYMBELLA	
....RHOPALODIA	
...DIATOMACEAE	
....DIATOMA	
...FRAGILARIACEAE	
& ....FRAGILARIA	
....SYNEDRA	
...GOMPHONEMATACEAE	
....GOMPHONEIS	
....GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
....NAVICULA	
...NITZSCHIACEAE	
....NITZSCHIA	
...SURIRELLACEAE	
....CYMATOPLEURA	
CYANOPHYTA	BLUE-GREEN ALGAE
.CYANOPHYCEAE	
..CHROCCOCCALES	COCCOID BLUE-GREENS
...CHROCCOCCAEAE	
....AGMENELLUM	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

422914110040501 GREEN RIVER AT TARTERS ISLAND, NEAR BIG PINEY, WY (LAT 42 29 14 LONG 110 04 05)

DATE	TIME	TEMPERATURE (DEG C)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)
OCT											
19...	--	9.0	150	34	42	11	15	.5	1.6	140	1
MAR											
31...	1210	1.0	180	43	45	17	52	1.7	2.9	170	0

DATE	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)
OCT											
19...	120	55	2.8	.2	6.6	204	.28	.00	.00	.00	.13
MAR											
31...	140	150	11	--	7.7	370	.50	.01	--	--	--

DATE	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)
OCT											
19...	.21	.13	.00	.21	.01	.02	.00	.00	30	10	4
MAR											
31...	--	1.0	.24	.76	.04	--	.01	.03	--	50	--

09207650 DRY BASIN CREEK NEAR BIG PINEY, WY (LAT 42 25 28 LONG 110 06 35)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO
MAR										
26...	1125	2.7	4.5	--	--	--	--	--	--	--
27...	1125	E2.7	4.5	1500	61	0	14	6.4	130	7.2
MAY										
04...	1600	.44	8.0	--	--	--	--	--	--	--

E-Estimate.

DATE	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)
MAR									
26...	--	--	--	--	--	--	--	--	--
27...	2.2	150	3	130	170	27	3.4	431	.59
MAY									
04...	--	--	--	--	--	--	--	--	--

DATE	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	IRON, DISSOLVED (UG/L AS FE)
MAR									
26...	--	--	--	--	--	--	--	--	--
27...	3.1	.20	2.8	2.2	.57	2.7	.05	.15	60
MAY									
04...	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

09207650 DRY BASIN CREEK NEAR BIG PINEY, WY (LAT 42 25 28 LONG 110 06 35)--Continued

DATE	TIME	TEMPERATURE (DEG C)	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM
MAR 26...	1125	4.5	2.7	4480	33	58	84	100
MAY 04...	1600	8.0	.44	842	1.0	--	--	--

422336110063101 GREEN RIVER BELOW REARDON DRAW, NEAR LA BARGE, WY (LAT 42 23 36 LONG 110 06 31)

DATE	TIME	TEMPERATURE (DEG C)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)
OCT 19...	--	9.0	150	23	41	11	16	.6	1.6	150	1
MAR 31...	1215	.5	180	43	45	17	53	1.7	2.9	170	0

DATE	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)
OCT 19...	120	56	3.1	.2	6.4	210	.29	.00	.00	.00	.12
MAR 31...	140	150	12	--	7.8	372	.51	.03	--	--	--

DATE	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)
OCT 19...	.05	.12	.07	.05	.01	.00	.00	.00	30	10	4
MAR 31...	--	1.0	.57	.43	.07	--	.00	.00	--	80	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

421450110105001 GREEN RIVER BELOW SPUR CANYON, NEAR LA BARGE, WY (LAT 42 14 50 LONG 110 10 50)

DATE	TIME	TEMPERATURE (DEG C)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)
OCT											
19...	1537	9.0	150	26	42	12	18	.6	1.7	150	3

DATE	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)
OCT											
19...	130	57	3.4	.2	6.2	217	.30	.00	.00	.00	.18

DATE	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)
OCT											
19...	.19	.18	.00	.19	.01	.01	.00	.00	30	0	8

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

422958110391501 LA BARGE CREEK NEAR SCALERS CABIN, WY (LAT 42 29 58 LONG 110 39 15)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
JUN 27...	1155	200	230	7.8	10.0	2	9.0	130	14	37	8.0
AUG 04...	0930	20	320	8.2	8.0	1	9.6	160	22	45	12

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
JUN 27...	3.0	.1	.4	140	0	110	16	8.1	.1	5.1	148
AUG 04...	1.7	.1	.4	170	0	140	20	.7	.1	5.4	169

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)
JUN 27...	.20	79.9	.02	.08	.32	.40	.03	.14	.11	.34
AUG 04...	.23	9.1	.01	.00	.73	.73	.02	.02	.01	.03

DATE	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	PHYTO-PLANK-TON, TOTAL (CELLS PER ML)	IN-VERTE-BRATES, BENTHIC WET WT. (G/SQ METER)	BIOMASS CHLORO-PHYLL RATIO PLANK-TON (UNITS)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN 27...	30	90	20	810	1.6	316200	.463	.059	--	--
AUG 04...	10	20	20	160	2.0	264500	.558	.246	9	.49

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

422958110391501 LA BARGE CREEK NEAR SCALERS CABIN, WY (LAT 42 29 58 LONG 110 39 15)--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO AUGUST 1978

DATE	JUN 27,78	AUG 4,78
TIME	1155	0930
TOTAL CELLS/ML	810	160
DIVERSITY: DIVISION	0.6	1.3
.CLASS	0.6	1.3
..ORDER	0.6	1.4
...FAMILY	0.8	2.3
....GENUS	0.8	2.3

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)				
.CHLOROPHYCEAE				
..CHLOROCOCCALES				
...OOCYSTACEAE				
....ANKISTRODESMUS	*	0	--	-
..ULOTRICHALES				
...MICROSPORACEAE				
....CYLINDROCAPSA	--	-	25#	16
...ULOTRICHACEAE				
....ULOTHRIX	--	-	28#	18
CHRYSOPHYTA				
.BACILLARIOPHYCEAE				
..CENTRALES				
...COSCINODISCACEAE				
....COSCINODISCUS	*	0	--	-
....CYCLOTELLA	--	-	4	2
..PENNALES				
...ACHNANTHACEAE				
....COCCONEIS	*	0	--	-
...CYMBELLACEAE				
....CYMBELLA	7	1	--	-
...DIATOMACEAE				
....DIATOMA	*	0	--	-
...EUNOTIACEAE				
....EUNOTIA	11	1	--	-
...GOMPHONEMATACEAE				
....GOMPHONEMA	7	1	--	-
...NAVICULACEAE				
....NAVICULA	50	6	11	7
...NITZSCHIACEAE				
....NITZSCHIA	*	0	--	-
...SURIRELLACEAE				
....SURIRELLA	*	0	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)				
.CYANOPHYCEAE				
..HORMOGONALES				
...NOSTOCACEAE				
....ANABAENA	--	-	36#	23
...OSCILLATORIACEAE				
....OSCILLATORIA	710#	88	53#	34

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

422958110391501 LA BARGE CREEK NEAR SCALERS CABIN, WY (LAT 42 29 58 LONG 110 39 15)--Continued

JUNE 27, 1978
1155 HOURS

PERIPHYTON IDENTIFICATION

_ORGANISM__NAME_	_COMMON__NAME_
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..ULOTRICHALES	
...ULOTRICHACEAE	
....ULOTHRIX	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...ACHNANTHACEAE	
....ACHNANTHES	
....COCCONEIS	
...CYMBELLACEAE	
....CYMBELLA	
....EPITHEMIA	
...DIATOMACEAE	
....DIATOMA	
...FRAGILARIACEAE	
....FRAGILARIA	
....HANNAEA	
....SYNEDRA	
...GOMPHONEMATACEAE	
& ....GOMPHONEMA	
...MERIDIONACEAE	
....MERIDION	
...NAVICULACEAE	NAVICULOID
& ....NAVICULA	
...NITZSCHIACEAE	
....NITZSCHIA	
...SURIRELLACEAE	
....SURIRELLA	
CYANOPHYTA	BLUE-GREEN ALGAE
.CYANOPHYCEAE	
..HORMOGONALES	FILAMENTOUS BL-GREEN
...OSCILLATORIACEAE	
....LYNGBYA	
....OSCILLATORIA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: GLASS CHAMBER(12MM CIRC), INVERTED MICROSCOPE

AUG. 4, 1978
0930 HOURS

PERIPHYTON IDENTIFICATION

_ORGANISM__NAME_	_COMMON__NAME_
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..ULOTRICHALES	
...ULOTRICHACEAE	
& ....ULOTHRIX	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...ACHNANTHACEAE	
....ACHNANTHES	
...CYMBELLACEAE	
....CYMBELLA	
....RHOPALODIA	
...FRAGILARIACEAE	
....HANNAEA	
& ....SYNEDRA	
...GOMPHONEMATACEAE	
....GOMPHONEIS	
....GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
....NAVICULA	
...TABELLARIACEAE	
....TABELLARIA	
CYANOPHYTA	BLUE-GREEN ALGAE
.CYANOPHYCEAE	
..CHROOCOCCALES	COCCOID BLUE-GREENS
...CHROOCOCCACEAE	
....ANACYSTIS	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: SLIDE MOUNTING, INVERTED MICROSCOPE

GREEN RIVER BASIN

422958110391501 LA BARGE CREEK NEAR SCALERS CABIN, WY (LAT 42 29 58 LONG 110 39 15)--Continued

BENTHIC INVERTEBRATE ANALYSES, OCTOBER 1977 TO AUGUST 1978

DATE	JUN 27,78	AUG 4,78
TIME	1155	0930
TOTAL COUNT	70	14
DIVERSITY: PHYLUM	0.0	0.0
.CLASS	0.0	0.0
..ORDER	1.7	0.7
...FAMILY	2.8	0.7
....GENUS	3.2	0.7
....GENUS-INSECTA	3.2	0.7

ORGANISM	COUNT	COUNT
ARTHROPODA (ARTHROPODS)		
.INSECTA		
..COLEOPTERA		
...ELMIDAE		
....HETERLIMNIUS	1	--
..DIPTERA		
...CHIRONOMIDAE		
....CLADOTANYTARSUS	2	--
....CRICUTOPUS	1	--
....DIAMESA	2	--
....MICROPSECTRA	1	--
....STEMPELLINA	1	--
....UNKNOWN GENUS #1	1	--
...SIMULIIDAE		
....SIMULIUM	20	--
....UNKNOWN GENUS	--	3
...TIPULIDAE		
....HEXATOMA	3	--
..EPHEMEROPTERA		
...BAETIDAE		
....BAETIS	14	--
...EPHEMERELLIDAE		
....EPHEMERELLA	8	--
...HEPTAGENIIDAE		
....EPEORUS	1	--
....HEPTAGENIA	3	--
..TRICHOPTERA		
...BRACHYCENTRIDAE		
....BRACHYCENTRUS	8	11
..DIPTERA		
...CHIRONOMIDAE		
....PSECTROCLADIUS	1	--
..PLECOPTERA		
...NEMOURIDAE		
....NEMOURA	3	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

09208500 LA BARGE CREEK NEAR VIOLA, WY (LAT 42 13 20 LONG 110 19 10)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
JUN 27...	1310	500	280	8.5	10.0	10	8.8	150	23	43	9.5
AUG 04...	1115	30	370	8.6	13.0	2	8.4	200	47	55	14

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	PUTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCU3)	CAR-BONATE (MG/L AS CU3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
JUN 27...	1.8	.1	.5	150	0	120	19	.7	.1	5.8	155
AUG 04...	2.2	.1	.6	180	0	150	52	1.1	.3	6.6	221

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)
JUN 27...	.21	209	.02	.01	.27	.28	.05	.03	.02	.06
AUG 04...	.30	17	.01	.00	.34	.34	.02	.02	.01	.03

DATE	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	PHYTO-PLANK-TON, TOTAL (CELLS PER ML)	IN-VERTE-BRATES, BENTHIC WET WT. (G/SQ METER)	BIOMASS CHLORO-PHYLL RATIO PLANK-TON (UNITS)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN 27...	10	130	30	550	.6	376900	.463	.059	--	--
AUG 04...	10	<10	10	260	.1	342900	.345	.098	28	2.3

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

09208500 LA BARGE CREEK NEAR VIOLA, WY (LAT 42 13 20 LONG 110 19 10)--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO AUGUST 1978

DATE	JUN 27,78	AUG 4,78
TIME	1310	1115
TOTAL CELLS/ML	550	260
DIVERSITY: DIVISION	1.0	1.2
.CLASS	1.0	1.2
..ORDER	1.2	1.5
...FAMILY	1.6	2.2
....GENUS	1.7	2.2

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)				
.CHLOROPHYCEAE				
..CHLOROCOCCALES				
...CHARACIACEAE				
....SCHROEDERIA	5	1	--	-
..VOLVOCALES				
...CHLAMYDOMONADACEAE				
....CHLAMYDOMONAS	11	2	11	4
CHRYSOPHYTA				
.BACILLARIOPHYCEAE				
..CENTRALES				
...COSCINODISCACEAE				
....CYCLOTELLA	27	5	18	7
..PENNALES				
...CYMBELLACEAE				
....AMPHORA	5	1	--	-
....CYMBELLA	11	2	--	-
...DIATOMACEAE				
....DIATOMA	--	-	7	3
...EUNOTIACEAE				
....EUNOTIA	5	1	--	-
...FRAGILARIACEAE				
....SYNEDRA	11	2	--	-
...GOMPHONEMATACEAE				
....GOMPHONEMA	11	2	--	-
...NAVICULACEAE				
....GYROSIGMA	5	1	--	-
....NAVICULA	32	6	36	14
...NITZSCHIACEAE				
....NITZSCHIA	16	3	18	7
...SURIRELLACEAE				
....SURIRELLA	5	1	--	-
...TABELLARIACEAE				
....TABELLARIA	--	-	7	3
CYANOPHYTA (BLUE-GREEN ALGAE)				
.CYANOPHYCEAE				
..HORMOGONALES				
...NOSTOCACEAE				
....ANABAENA	--	-	18	7
...OSCILLATORIACEAE				
....OSCILLATORIA	400#	74	140#	55
EUGLENOPHYTA (EUGLENOIDS)				
.EUGLENOPHYCEAE				
..EUGLENALES				
...EUGLENACEAE				
....EUGLENA	--	-	4	1

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

JUNE 27, 1978
1310 HOURS

PERIPHYTON IDENTIFICATION

_ORGANISM__NAME_______________	_COMMON__NAME______
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..ZYGNEMATALES	
...ZYGNEMATACEAE	
....MOUGEOTIA	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...ACHNANTHACEAE	
....ACHNANTHES	
....RHOICOSPHENIA	
...CYMBELLACEAE	
....CYMBELLA	
....EPITHEMIA	
...DIATOMACEAE	
....DIATOMA	
...FRAGILARIACEAE	
....FRAGILARIA	
....HANNAEA	
....SYNEDRA	
...GOMPHONEMATACEAE	
& ....GOMPHONEMA	
...MERIDIONACEAE	
....MERIDION	
...NAVICULACEAE	NAVICULOID
....CALONEIS	
& ....NAVICULA	
...NITZSCHIACEAE	
....NITZSCHIA	
...SURIRELLACEAE	
....SURIRELLA	
CYANOPHYTA	BLUE-GREEN ALGAE
.CYANOPHYCEAE	
..HORMOGONALES	FILAMENTOUS BL-GREEN
...OSCILLATORIACEAE	
& ....OSCILLATORIA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: GLASS CHAMBER(12MM CIRC), INVERTED MICROSCOPE

AUG. 4, 1978
1115 HOURS

PERIPHYTON IDENTIFICATION

_ORGANISM__NAME_______________	_COMMON__NAME______
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..ZYGNEMATALES	
...ZYGNEMATACEAE	
& ....SPIROGYRA	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...ACHNANTHACEAE	
....ACHNANTHES	
....COCCONEIS	
....RHOICOSPHENIA	
...CYMBELLACEAE	
....CYMBELLA	
....EPITHEMIA	
...DIATOMACEAE	
& ....DIATOMA	
...FRAGILARIACEAE	
....HANNAEA	
....SYNEDRA	
...GOMPHONEMATACEAE	
....GOMPHONEIS	
....GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
....NAVICULA	
...NITZSCHIACEAE	
....NITZSCHIA	
...SURIRELLACEAE	
....CYMATOPLEURA	
....SURIRELLA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: SLIDE MOUNTING, INVERTED MICROSCOPE

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING
WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
GREEN RIVER BASIN

09208500 LA BARGE CREEK NEAR VIOLA, WY (LAT 42 13 20 LONG 110 19 10)--Continued

BENTHIC INVERTEBRATE ANALYSES, UCTOBER 1977 TO AUGUST 1978

UATE	JUN 27,78	AUG 4,78
TIME	1310	1115
TOTAL COUNT	144	31
DIVERSITY: PHYLUM	0.0	0.0
.CLASS	0.0	0.0
..ORDER	0.6	0.2
...FAMILY	1.0	0.2
....GENUS	1.5	1.1
....GENUS-INSECTA	1.5	1.1

ORGANISM	COUNT	COUNT
ARTHROPODA (ARTHROPODS)		
.INSECTA		
..COLEOPTERA		
...ELMIDAE		
....HETERLIMNIUS	3	18
....OPTIOSERVUS	--	12
..DIPTERA		
...CHIRONOMIDAE		
....CRICOTOPUS	7	--
....EUKIEFFERIELLA	1	--
....PARATANYTARSUS	111	--
....THIENEMANNIELLA	1	--
....TRISSOCLADIUS	1	--
...SIMULIIDAE		
....SIMULIUM	8	--
...TIPULIDAE		
....ANTOCHA	1	--
..EPHEMEROPTERA		
...BAETIDAE		
....BAETIS	2	--
...EPHEMERELLIDAE		
....EPHEMEHELLA	1	--
..TRICHOPTERA		
...BRACHYCENTRIDAE		
....AMIOCENTRUS	3	--
....BRACHYCENTRUS	4	--
..PLECUPTERA		
...NEMOUKIDAE		
....NEMOURA	1	1

420610110075201 FONTENELLE RESERVOIR ABOVE FONTENELLE CREEK, NEAR FONTENELLE, WY (LAT 42 06 10 LONG 110 07 52)

DATE	TIME	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)
OCT											
19...	1550	160	28	43	13	22	.8	1.8	160	1	130

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)
OCT											
19...	65	4.5	.2	2.5	232	.32	.00	.10	.00	.35	.11

DATE	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	PHYTO-PLANK-TON, TOTAL (CELLS PER ML)
OCT											
19...	.45	.34	.11	.03	.02	.00	.00	40	20	0	180000

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

420610110075201 FONTENELLE RESERVOIR ABOVE FONTENELLE CREEK, NEAR FONTENELLE, WY--Continued
(LAT 42 06 10 LONG 110 07 52)

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 19,77
TIME	1550
TOTAL CELLS/ML	180000
DIVERSITY: DIVISION	0.0
.CLASS	0.0
..ORDER	0.0
...FAMILY	0.0
....GENUS	0.0

ORGANISM	CELLS /ML	PER- CENT
CYANOPHYTA (BLUE-GREEN ALGAE)		
.CYANOPHYCEAE		
..HORMOGONALES		
...NOSTOCACEAE		
....APHANIZOMENON	180000#	100

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

421300110321501 FONTENELLE CREEK ABOVE PERKINS CREEK, NEAR FONTENELLE, WY (LAT 42 13 00 LONG 110 32 15)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)
OCT 17...	1530	11	50	8.3	7.6	0	9.6	190	37	54	14	2.1

DATE	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)
OCT 17...	.1	.6	190	0	160	36	1.7	.1	6.6	209	.28	6.3

DATE	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)
OCT 17...	.02	.09	.01	.00	.02	.09	.06	.03	.04	.02	.00

DATE	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)	PHYTOPLANKTON, TOTAL (CELLS PER ML)	INVERTEBRATES, BENTHIC WET WT. (G/SQ METER)	BIOMASS CHLOROPHYLL RATIO PLANKTON (UNITS)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)
OCT 17...	.00	10	20	20	260	5.7	30300	.033	.004	2	.06

421300110321501 FONTENELLE CREEK ABOVE PERKINS CREEK, NEAR FONTENELLE, WY--Continued
(LAT 42 13 00 LONG 110 32 15)

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 17,77
TIME	1530
TOTAL CELLS/ML	260
DIVERSITY: DIVISION	1.2
.CLASS	1.2
..ORDER	1.8
...FAMILY	2.7
....GENUS	3.1

ORGANISM	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...SCENEDESMACEAE		
....SCENEDESMUS	19	7
..ZYGNEMATALES		
...DESMIDIACEAE		
....CLOSTERIUM	9	4
....COSMARIUM	9	4
...ZYGNEMATACEAE		
....MOUGEOTIA	85#	33
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..CENTRALES		
...COSCINODISCACEAE		
....CYCLOTELLA	19	7
..PENNALES		
...CYMBELLACEAE		
....EPITHEMIA	9	4
...FRAGILARIACEAE		
....SYNEDRA	9	4
...NAVICULACEAE		
....GYROSIGMA	9	4
....NAVICULA	38	15
....PINNULARIA	19	7
...NITZSCHIACEAE		
....NITZSCHIA	19	7
CRYPTOPHYTA (CRYPTOMONADS)		
.CRYPTOPHYCEAE		
..CRYPTOMONADALES		
...CRYPTO,ONADACEAE		
....CRYPTOMONAS	9	4

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

GREEN RIVER BASIN

421300110321501 FONTENELLE CREEK ABOVE PERKINS CREEK, NEAR FONTENELLE, WY--Continued
(LAT 42 13 00 LONG 110 32 15)

OCT. 17, 1977
1530 HOURS

IDENTIFICATION OF PERIPHYTON

ORGANISM NAME	COMMON NAME
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..OEDOGONIALES	
...OEDOGONIACEAE	
....OEDOGONIUM	
..ULOTRICHALES	
...MICROSPORACEAE	
....MICROSPORA	
..ZYGNEMATALES	
...ZYGNEMATACEAE	
& ....MOUGEOTIA	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...ACHNANTHACEAE	
....COCCONEIS	
...CYMBELLACEAE	
....AMPHORA	
....CYMBELLA	
....EPITHEMIA	
....RHOPALODIA	
...FRAGILARIACEAE	
....FRAGILARIA	
...GOMPHONEMATACEAE	
....GOMPHONEIS	
....GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
....CALONEIS	
....GYROSIGMA	
....NAVICULA	
....NEIDIUM	
....PINNULARIA	
...NITZSCHIACEAE	
....CYLINDROTHECA	
& ....NITZSCHIA	
...SURIRELLACEAE	
....CYMATOPLEURA	
....SURIRELLA	
CYANOPHYTA	BLUE-GREEN ALGAE
.CYANOPHYCEAE	
..CHROCCOCCALES	COCCOID BLUE-GREENS
...CHROCCOCCAEAE	
....AGMENELLUM	
..HORMOGONALES	FILAMENTOUS BL-GREEN
...OSCILLATORIACEAE	
& ....OSCILLATORIA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

421300110321501 FONTENELLE CREEK ABOVE PERKINS CREEK, NEAR FONTENELLE, WY--Continued
(LAT 42 13 00 LONG 110 32 15)

BENTHIC INVERTEBRATE ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 17,77
TIME	1530
TOTAL COUNT	1493
DIVERSITY: PHYLUM	0.2
.CLASS	0.2
..ORDER	1.8
...FAMILY	2.8
....GENUS	3.4
....GENUS-INSECTA	3.2

ORGANISM	COUNT
ARTHROPODA (ARTHROPODS)	
.INSECTA	
..COLEOPTERA	
...ELMIDAE	
....OPTIOSERVUS	178
..DIPTERA	
...CHIRONOMIDAE	
....CONCHAPELOPIA	23
....EUKIEFFERIELLA	4
....PSEUDODIAMESA	9
....RHEOTANYTARSUS	72
....SPANIOTOMA	
.....SPANIOTOMA SP. G	176
....TANYTARSUS	27
...EMPIDIDAE	
....CHELIFERA	6
....WIEDEMANNIA	1
...PSYCHODIDAE	
....PERICOMA	20
...SIMULIIDAE	
....SIMULIUM	1
...TIPULIDAE	
....ANTOCHA	15
....HEXATOMA	2
..EPHEMEROPTERA	
...BAETIDAE	
....BAETIS	55
....PSEUDOCLOEON	528
...EPHEMERELLIDAE	
....EPHEMERELLA	122
...HEPTAGENIIDAE	
....CINYGMULA	85
...LEPTOPHLEBIIDAE	
....PARALEPTOPHLEBIA	15
..PLECOPTERA	
...CHLOROPERLIDAE	
....UNKNOWN GENUS	1
...PERLODIDAE	
....ISOPERLA	3
..TRICHOPTERA	
...BRACHYCENTRIDAE	
....BRACHYCENTRUS	4
....MICRASEMA	30
...GLOSSOSOMATIDAE	
....AGAPETUS	32
...HYDROPSYCHIDAE	
....ARCTOPSYCHE	3
...LEPIDOSTOMATIDAE	
....LEPIDOSTOMA	9
...RHYACOPHILIDAE	
....RHYACOPHILA	6
..PLECOPTERA	
...CHLOROPERLIDAE	
....ALLOPERLA	6
...PERLIDAE	
....ACRONEURIA	6
...PERLODIDAE	
....ARCYNOPTERYX	1
.ARACHNIDA	
..HYDRACARINA	
...UNKNOWN FAMILY	
....UNKNOWN GENUS #3	9
MOLLUSCA (MOLLUSCS)	
.BIVALVIA	
..NUCULOIDEA	
...SPHAERIIDAE	
....PISIDIUM	12
....SPHAERIUM	32

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

410522110101901 FONTENELLE CREEK AT MOUTH, NEAR FONTENELLE, WY (LAT 41 05 22 LONG 110 10 19)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO
OCT												
17...	1450	9.4	675	8.3	10.0	0	330	70	82	31	32	.8

DATE	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 105 DEG. C, DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)
OCT												
17...	2.2	320	0	260	120	12	.3	15	470	452	.61	11

DATE	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	PHYTOPLANKTON, TOTAL (CELLS PER ML)	BIOMASS CHLOROPHYLL RATIO PLANKTON (UNITS)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)
OCT												
17...	1	.00	.01	.00	.00	.00	340	32260	.031	.003	4	.10

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BORON, DISSOLVED (UG/L AS B)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)
OCT								
17...	1450	10	2	100	50	0	10	0

DATE	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	ZINC, DISSOLVED (UG/L AS ZN)
OCT								
17...	20	0	10	.0	1	0	0	0

DATE	TIME	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DISSOLVED (PCI/L AS CS-137)	GRUSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DISSOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DISSOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DISSOLVED (UG/L AS U)
OCT									
17...	1450	<8.0	<.4	3.9	<.4	3.1	<.4	.07	2.0

410522110101901 FONTENELLE CREEK AT MOUTH, NEAR FONTENELLE, WY (LAT 41 05 22 LONG 110 10 19)--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 17,77
TIME	1450
TOTAL CELLS/ML	340
DIVERSITY: DIVISION	1.4
.CLASS	1.4
..ORDER	1.5
...FAMILY	2.9
....GENUS	3.0

ORGANISM	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...OOCYSTACEAE		
....TETRAEDRON	9	3
...SCENEDESMACEAE		
....ACTINASTRUM	35	10
..VOLVOCALES		
...CHLAMYDOMONADACEAE		
....CHLAMYDOMONAS	9	3
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...ACHNANTHACEAE		
....COCCONEIS	9	3
...DIATOMACEAE		
....DIATOMA	9	3
...FRAGILARIACEAE		
....SYNEDRA	52#	15
...NAVICULACEAE		
....NAVICULA	35	10
...NITZSCHIACEAE		
....CYLINDROTHECA	9	3
....NITZSCHIA	61#	18
CYANOPHYTA (BLUE-GREEN ALGAE)		
.CYANOPHYCEAE		
..HORMOGONALES		
...NOSTOCACEAE		
....ANABAENA	78#	23
...OSCILLATORIACEAE		
....OSCILLATORIA	35	10

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

410522110101901 FONTENELLE CREEK AT MOUTH, NEAR FONTENELLE, WY (LAT 41 05 22 LONG 110 10 19)--Continued

OCT. 17. 1977
1450 HOURS

PERIPHYTON IDENTIFICATION

	ORGANISM NAME	COMMON NAME
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..CHLOROCOCCALES	
	...SCENEDESMACEAE	
	....SCENEDESMUS	
	..ULOTRICHALES	
	...MICROSPORACEAE	
	....MICROSPORA	
	...ULOTRICHACEAE	
	....GEMINELLA	
	..ZYGNEMATALES	
	...DESMIDIACEAE	PLACODERM DESMIDS
	....COSMARIUM	
	...ZYGNEMATACEAE	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
	....COCCONEIS	
	....RHOICOSPHENIA	
	...CYMBELLACEAE	
	....AMPHORA	
	....CYMBELLA	
	....EPITHEMIA	
	....RHOPALODIA	
	...DIATOMACEAE	
	....DIATOMA	
	...FRAGILARIACEAE	
&	....SYNEDRA	
	...GOMPHONEMATACEAE	
&	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
&	....NAVICULA	
	...NITZSCHIACEAE	
&	....NITZSCHIA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.CYANOPHYCEAE	
	..HORMOGONALES	FILAMENTOUS BL-GREEN
	...NOSTOCACEAE	
	....NOSTOC	

NOTE: & - ESTIMATED DOMINANT ORGANISM: NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING. INVERTED MICROSCOPE

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

415652110240201 NORTH FORK SLATE CREEK BELOW EMIGRANT, NEAR FONTENELLE, WY (LAT 41 56 52 LONG 110 24 02)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO
OCT 17...	1200	.04	1100	8.3	7.6	1	470	290	130	35	73	1.5

DATE	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	IODIDE, DISSOLVED (MG/L AS I)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)
OCT 17...	4.2	220	0	180	360	57	.3	9.6	7.8	786	1.07	1.7

DATE	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)
OCT 17...	.00	.02	.00	2.8	.05	2.8	2.8	.05	.00	.00	.00

DATE	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)	PHYTOPLANKTON, TOTAL (CELLS PER ML)	INVERTEBRATES, BENTHIC WET WT. (G/SQ METER)	BIOMASS CHLOROPHYLL RATIO PLANKTON (UNITS)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)
OCT 17...	.00	230	10	4	250	.3	95240	.021	.005	4	.01

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

415652110240201 NORTH FORK SLATE CREEK BELOW EMIGRANT, NEAR FONTENELLE, WY--Continued
(LAT 41 56 52 LONG 110 24 02)

PHYTOPLANKTON ANALYSES

DATE	OCT 17,77
TIME	1200
TOTAL CELLS/ML	250
DIVERSITY: DIVISION	0.2
.CLASS	0.2
..ORDER	0.7
...FAMILY	2.3
....GENUS	2.5

ORGANISM	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..ZYGNEMATALES		
...ZYGNEMATACEAE		
....MOUGEOTIA	8	3
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..CENTRALES		
...COSCINODISCACEAE		
....CYCLOTELLA	16	7
....STEPHANODISCUS	8	3
..PENNALES		
...CYMBELLACEAE		
....CYMBELLA	8	3
....EPITHEMIA	8	3
...FRAGILARIACEAE		
....SYNEDRA	8	3
...GOMPHONEMATACEAE		
....GOMPHONEMA	8	3
...NAVICULACEAE		
....NAVICULA	98#	40
...NITZSCHIACEAE		
....NITZSCHIA	74#	30
...SURIRELLACEAE		
....SURIRELLA	8	3

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

415652110240201 NORTH FORK SLATE CREEK BELOW EMIGRANT, NEAR FONTENELLE, WY--Continued
(LAT 41 56 52 LONG 110 24 02)

OCT. 17, 1977
1200 HOURS

IDENTIFICATION OF PERIPHYTON

ORGANISM NAME	COMMON NAME
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..OEDOGONIALES	
...OEDOGONIACEAE	
....OEDOGONIUM	
..ULOTRICHALES	
...MICROSPORACEAE	
& ....MICROSPORA	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...ACHNANTHACEAE	
....COCCONEIS	
...CYMBELLACEAE	
....CYMBELLA	
& ....EPITHEMIA	
& ....RHOPALODIA	
...FRAGILARIACEAE	
....SYNEDRA	
...GOMPHONEMATACEAE	
....GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
....AMPHIPLEURA	
....GYROSIGMA	
& ....NAVICULA	
...NITZSCHIACEAE	
& ....NITZSCHIA	
...SURIRELLACEAE	
....SURIRELLA	
CYANOPHYTA	BLUE-GREEN ALGAE
.CYANOPHYCEAE	
..HORMOGONALES	FILAMENTOUS BL-GREEN
...NOSTOCACEAE	
& ....ANABAENA	
...OSCILLATORIACEAE	
....LYNGBYA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

BENTHIC INVERTEBRATE ANALYSES,

DATE	OCT 17,77
TIME	1200
TOTAL COUNT	22
DIVERSITY: PHYLUM	0.0
.CLASS	0.3
..ORDER	1.4
...FAMILY	1.8
....GENUS	3.0
....GENUS-INSECTA	2.8

ORGANISM	COUNT
ARTHROPODA (ARTHROPODS)	
.INSECTA	
..COLEOPTERA	
...ELMIDAE	
....OPTIOSERVUS	1
..DIPTERA	
...CHIRONOMIDAE	
....ORTHOCLADIUS	7
....PENTANEURA	1
....RHEOTANYTARSUS	2
....TANYTARSUS	3
...SIMULIIDAE	
....SIMULIUM	2
..HEMIPTERA	
...CORIXIDAE	
....HESPEROCORIXA	1
....SIGARA	3
..ODONATA	
...GOMPHIDAE	
....OPHIOGOMPHUS	1
.ARACHNIDA	
..HYDRACARINA	
...UNKNOWN FAMILY	
....UNKNOWN GENUS #3	1

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

415903110110501 SLATE CREEK AT HIGHWAY 189, NEAR FONTENELLE, WY (LAT 41 59 03 LONG 110 11 05)

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)
OCT 17...	1145	1.1	1600	8.5	6.0	9	10.0	540	280	100	71	160
MAR 27...	1145	15	--	--	--	200	--	--	--	--	--	--

DATE	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)
OCT 17...	3.0	3.2	320	0	260	510	55	.3	15	1070	1.46
MAR 27...	--	--	--	--	--	--	--	--	--	--	--

DATE	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)
OCT 17...	3.1	.00	.01	.00	.27	.13	.28	.15	.13	.02	.01
MAR 27...	--	--	--	--	--	--	--	--	--	--	--

DATE	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)	PHYTOPLANKTON, TOTAL (CELLS PER ML)	INVERTEBRATES, BENTHIC WET WT. (G/SQ METER)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)
OCT 17...	.00	.00	160	10	8	470	5.2	.008	.002	13	.04
MAR 27...	--	--	--	--	--	--	--	--	--	--	--

GREEN RIVER BASIN

415903110110501 SLATE CREEK AT HIGHWAY 189, NEAR FONTENELLE, WY (LAT 41 59 03 LONG 110 11 05)--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 17,77
TIME	1145
TOTAL CELLS/ML	470
DIVERSITY: DIVISION	1.3
.CLASS	1.3
..ORDER	1.3
...FAMILY	2.8
....GENUS	3.0

ORGANISM	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...OOCYSTACEAE		
....ANKISTRODESMUS	15	3
...SCENEDESMACEAE		
....SCENEDESMUS	29	6
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...ACHNANTHACEAE		
....COCCONEIS	36	8
....RHOICOSPHENIA	7	2
...FRAGILARIACEAE		
....SYNEDRA	15	3
...GOMPHONEMATACEAE		
....GOMPHONEMA	7	2
...NAVICULACEAE		
....GYROSIGMA	7	2
....NAVICULA	36	8
...NITZSCHIACEAE		
....CYLINDROTHECA	15	3
....NITZSCHIA	110#	23
...SURIRELLACEAE		
....SURIRELLA	7	2
CYANOPHYTA (BLUE-GREEN ALGAE)		
.CYANOPHYCEAE		
..HORMOGONALES		
...NOSTOCACEAE		
....ANABAENA	120#	27
...OSCILLATORIACEAE		
....OSCILLATORIA	58	13

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

415903110110501 SLATE CREEK AT HIGHWAY 189, NEAR FONTENELLE, WY (LAT 41 59 03 LONG 110 11 05)--Continued

OCT. 17, 1977
1145 HOURS

IDENTIFICATION OF PERIPHYTON

_ORGANISM__NAME	_COMMON__NAME
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..CLADOPHORALES	
...CLADOPHORACEAE	
& ....RHIZOCLONIUM	
..OEDOGONIALES	
...OEDOGONIACEAE	
....OEDOGONIUM	
..ULOTRICHALES	
...MICROSPORACEAE	
....MICROSPORA	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...ACHNANTHACEAE	
....COCCONEIS	
& ....RHOICOSPHENIA	
...CYMBELLACEAE	
....CYMBELLA	
....EPITHEMIA	
....RHOPALODIA	
...FRAGILARIACEAE	
....SYNEDRA	
...GOMPHONEMATACEAE	
....GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
....DIPLONEIS	
....GYROSIGMA	
....NAVICULA	
...NITZSCHIACEAE	
....NITZSCHIA	
...SURIRELLACEAE	
....SURIRELLA	
CYANOPHYTA	BLUE-GREEN ALGAE
.CYANOPHYCEAE	
..HORMOGONALES	FILAMENTOUS BL-GREEN
...NOSTOCACEAE	
& ....ANABAENA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

415903110110501 SLATE CREEK AT HIGHWAY 189, NEAR FONTENELLE, WY (LAT 41 59 03 LONG 110 11 05)--Continued

BENTHIC INVERTEBRATE ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 17,77
TIME	1145
TOTAL COUNT	1046
DIVERSITY: PHYLUM	1.2
.CLASS	1.4
..ORDER	0.0
...FAMILY	0.0
....GENUS	0.0
....GENUS-INSECTA	3.1

ORGANISM	COUNT
ANNELIDA	
.HIRUDINEA	1
.OLIGOCHAETA	
..PLESIOPORA	
...NAIDIDAE	384
ARTHROPOD(ARTHROPODS)	
.CRUSTACEA	
..AMPHIPODA	
...TALITRIDAE	
....HYALLELA	
.....H.AZTECA	3
...GAMMARIDAE	
....GAMMARUS	6
..PODOCOPA	23
.INSECTA	
..COLEOPTERA	
...ELMIDAE	
....OPTIOSERVUS	5
..DIPTERA	
...CERATOPOGONIDAE	
....UNKNOWN GENUS	9
...CHIRONOMIDAE	
....BRILLIA	4
....CONCHAPELOPIA	64
....CONSTEMPELLINA	1
....CRYPTOCHIRONOMUS	5
....ORTHOCLADIUS	25
....PSECTROTANYPUS	117
....RHEOTANYTARSUS	74
....SMITTIA	1
....TANYTARSUS	11
...EMPIDIDAE	
....WIEDEMANNIA	3
...SIMULIIDAE	
....SIMULIUM	82
...TIPULIDAE	
....TIPULA	1
..EPHEMEROPTERA	
...EPHEMERELLIDAE	
....EPHEMERELLA	6
...SIPHLONURIDAE	
....UNKNOWN GENUS	5
..HEMIPTERA	
...CORIXIDAE	
....UNKNOWN GENUS	3
..ODONATA	
...COENAGRIIDAE	
....UNKNOWN GENUS	135
..TRICHOPTERA	
...HYDROPTILIDAE	
....HYDROPTILA	25
....OXYETHIRA	1
...LEPTOCERIDAE	
....UNKNOWN GENUS	2
MOLLUSCA (MOLLUSCS)	
.BIVALVIA	
..NUCULOIDEA	
...SPHAERIIDAE	
....SPHAERIUM	17
.GASTROPODA	
..BASOMMATOPHORA	
...PHYSIDAE	
....PHYSA	20
...PLANORBIDAE	
....GYRAULUS	13

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

415900110050001 SLATE CREEK NEAR FONTENELLE, WY (LAT 41 59 00 LONG 110 05 00)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)
OCT 17...	1245	.63	1780	8.6	9.0	15	9.7	560	340	89	83

DATE	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 105 DEG. C, DISSOLVED (MG/L)
OCT 17...	210	3.8	4.4	270	0	220	670	73	.3	6.4	1400

DATE	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)
OCT 17...	1270	1.73	2.1	21	.00	.00	.00	.35	.20	.35

DATE	NITROGEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	PHYTOPLANKTON, TOTAL (CELLS PER ML)	INVERTEBRATES, BENTHIC WET WT. (G/SQ METER)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)
OCT 17...	.15	.20	.06	.00	.00	.00	3100	.1	44	.07

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BORON, DISSOLVED (UG/L AS B)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)
OCT 17...	1245	0	2	200	190	0	10	0

DATE	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	ZINC, DISSOLVED (UG/L AS ZN)
OCT 17...	20	0	8	.0	5	0	0	0

DATE	TIME	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DISSOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DISSOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DISSOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DISSOLVED (UG/L AS U)
OCT 17...	1245	<23	1.0	11	1.6	9.7	1.4	.09	2.6

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

415900110050001 SLATE CREEK NEAR FONTENELLE, WY (LAT 41 59 00 LONG 110 05 00)--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 17,77
TIME	1245
TOTAL CELLS/ML	3100
DIVERSITY: DIVISION	1.4
.CLASS	1.4
..ORDER	1.6
...FAMILY	2.7
....GENUS	2.9

ORGANISM	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...OOCYSTACEAE		
....ANKISTRODESMUS	220	7
...SCENEDESMACEAE		
....SCENEDESMUS	160	5
..ZYGNEMATALES		
...ZYGNEMATACEAE		
....MOUGEOTIA	20	1
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...NAVICULACEAE		
....ENTOMONEIS	81	3
...CYMBELLACEAE		
....EPITHEMIA	20	1
....RHOPALODIA	20	1
...FRAGILARIACEAE		
....SYNEDRA	320	10
...NAVICULACEAE		
....GYROSIGMA	40	1
....NAVICULA	240	8
...NITZSCHIACEAE		
....NITZSCHIA	910#	29
...SURIRELLACEAE		
....SURIRELLA	40	1
CRYPTOPHYTA (CRYPTOMONADS)		
.CRYPTOPHYCEAE		
..CRYPTOMONADALES		
...CRYPTOCHRYSIDACEAE		
....RHODOMONAS	20	1
CYANOPHYTA (BLUE-GREEN ALGAE)		
.CYANOPHYCEAE		
..CHROOCOCCALES		
...CHROOCOCCACEAE		
....ANACYSTIS	81	3
..HORMOGONALES		
...NOSTOCACEAE		
....ANABAENA	81	3
...OSCILLATORIACEAE		
....OSCILLATORIA	870#	28

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

415900110050001 SLATE CREEK NEAR FONTENELLE, WY (LAT 41 59 00 LONG 110 05 00)--Continued

OCT. 17, 1977
1245 HOURS

IDENTIFICATION OF PERIPHYTON

ORGANISM NAME	COMMON NAME
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..ZYGNEMATALES	
...DESMIDIACEAE	PLACODERM DESMIDS
....COSMARIUM	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...ACHNANTHACEAE	
....COCCONEIS	
...CYMBELLACEAE	
....CYMBELLA	
....EPITHEMIA	
....RHOPALODIA	
...DIATOMACEAE	
....DIATOMA	
...FRAGILARIACEAE	
& ....SYNEDRA	
...GOMPHONEMATACEAE	
& ....GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
....CALONEIS	
....NAVICULA	
...NITZSCHIACEAE	
& ....NITZSCHIA	
...SURIRELLACEAE	
....SURIRELLA	
CYANOPHYTA	BLUE-GREEN ALGAE
.CYANOPHYCEAE	
..HORMOGONALES	FILAMENTOUS BL-GREEN
...NOSTOCACEAE	
& ....NOSTOC	
...OSCILLATORIACEAE	
....LYNGBYA	
...RIVULARIACEAE	
& ....CALOTHRIX	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: SLIDE MOUNTING

BENTHIC INVERTEBRATE ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 17,77
TIME	1245
TOTAL COUNT	22
DIVERSITY: PHYLUM	0.0
.CLASS	0.0
..ORDER	0.3
...FAMILY	0.5
....GENUS	2.6
....GENUS-INSECTA	2.6

ORGANISM	COUNT
ARTHROPODA (ARTHROPODS)	
.INSECTA	
..DIPTERA	
...CHIRONOMIDAE	
....CONCHAPELOPIA	1
....ORTHOCLADIUS	3
....RHEOTANYTARSUS	9
....SMITTIA	3
....TANYTARSUS	2
...SIMULIIDAE	
....SIMULIUM	1
..ODONATA	
...COENAGRIIDAE	
....UNKNOWN GENUS	1
..DIPTERA	
...CHIRONOMIDAE	
....PSECTROCLADIUS	1
....UNKNOWN GENUS #5	1

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

420141110034801 FONTENELLE RESERVOIR NEAR DAM, NEAR FONTENELLE, WY (LAT 42 01 41 LONG 110 03 48)

DATE	TIME	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)
OCT										
19...	1600	11.5	160	26	42	13	22	.8	1.8	160

DATE	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)
OCT									
19...	1	130	63	4.5	.2	2.2	229	.31	.00

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
OCT									
19...	.01	.00	.28	.08	.29	.21	.08	.01	.01

DATE	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)	BIOMASS CHLORO- PHYLL RATIO PLANK- TON (UNITS)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT									
19...	.00	.00	40	10	0	1200	15390	.130	.338

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 19,77
TIME	1600
TOTAL CELLS/ML	1200
DIVERSITY: DIVISION	0.8
.CLASS	0.8
..ORDER	0.8
...FAMILY	0.8
....GENUS	1.4

ORGANISM	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...CHARACIACEAE		
....SCHROEDERIA	32	3
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..CENTRALES		
...COSCINODISCACEAE		
....STEPHANODISCUS	210#	18
CYANOPHYTA (BLUE-GREEN ALGAE)		
.CYANOPHYCEAE		
..HORMOGONALES		
...NOSTOCACEAE		
....ANABAENA	740#	62
....APHANIZOMENON	200#	17

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

415853110023501 GREEN RIVER NEAR FONTENELLE, WY (LAT 41 58 53 LONG 110 02 35)

DATE	TIME	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)
OCT 19...	1734	11.5	170	20	44	14	25	.8	2.1	170	5

DATE	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)
OCT 19...	150	81	5.1	.2	3.1	264	.36	.02	.09	.05	.26

DATE	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
OCT 19...	.00	.35	.30	.05	.01	.01	.00	.00	40	50	8

415700109582701 GREEN RIVER BELOW MC CULLEN BLUFF, WY (LAT 41 57 00 LONG 109 58 27)

DATE	TIME	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)
OCT 19...	1730	11.0	160	21	42	14	26	.9	1.8	160	6

DATE	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)
OCT 19...	140	80	4.7	.2	2.9	257	.35	.01	.03	.00	.29

DATE	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
OCT 19...	.08	.32	.24	.08	.01	.00	.00	.00	40	10	0

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

415456109513401 GREEN RIVER NEAR THOMAN SCHOOL, WY (LAT 41 54 56 LONG 109 51 34)

DATE	TIME	TEMPERATURE (DEG C)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)
OCT 19...	1720	11.0	170	34	43	14	28	.9	1.8	160	0

DATE	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)
OCT 19...	130	82	4.9	.2	2.6	256	.35	.02	.01	.01	.35

DATE	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)
OCT 19...	.15	.36	.20	.16	.01	.04	.00	.00	40	0	4

415445109485001 BUCKHORN CREEK AT LOWER FARSON CUTOFF, NEAR FARSON, WY (LAT 41 54 45 LONG 109 48 50)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)
MAR											
24...	1630	E13	--	--	4.0	--	3300	2300	650	400	5100
25...	1030	E8.0	--	--	4.0	--	2000	1100	29	480	5300
27...	1010	E1.5	16500	9.2	5.0	40	2100	1400	130	430	4000

E-Estimate.

DATE	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 105 DEG. C, DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
MAR										
24...	39	17	850	150	950	9300	2500	2.0	--	18600
25...	51	20	850	160	960	9500	2100	2.0	--	18100
27...	38	14	640	120	720	7700	1500	3.3	15000	14200

DATE	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)
MAR										
24...	25.3	653	--	11	4.5	.70	3.8	.43	.03	.09
25...	24.6	391	--	10	--	--	4.1	--	.01	.03
27...	19.3	57	120	4.7	3.6	1.4	2.2	.18	.01	.03

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

415445109485001 BUCKHORN CREEK AT LOWER FARSON CUTOFF, NEAR FARSON, WY--Continued
(LAT 41 54 45 LONG 109 48 50)

DATE	TIME	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)
MAR								
24...	1630	--	--	--	--	--	--	--
25...	1030	--	--	--	--	--	--	--
27...	1010	1000	8	200	1	20	7	2000

DATE	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	SELENIUM, TOTAL (UG/L AS SE)	SILVER, TOTAL RECOVERABLE (UG/L AS AG)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)
MAR								
24...	130	--	--	--	--	--	--	--
25...	180	--	--	--	--	--	--	--
27...	80	6	150	.0	31	8	1	40

DATE	TIME	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DISSOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DISSOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DISSOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DISSOLVED (UG/L AS U)
MAR									
27...	1010	<220	7.1	39	8.7	32	7.6	.18	51

420000110000001 TRIBUTARY TO FOUR MILE GULCH NEAR FONTENELLE, WY (LAT 42 00 00 LONG 110 00 00)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)
MAR										
25...	1410	E1.4	9.6	13.0	6	2400	940	79	530	6400

E-Estimate.

DATE	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)
MAR										
25...	57	23	1140	300	1430	11000	2500	.2	21500	29.2

DATE	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	IRON, DISSOLVED (UG/L AS FE)
MAR									
25...	81	18	6.7	1.6	5.1	.25	.03	.09	50

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

415330109474501 BUCKHORN CREEK AT MOUTH, NEAR FONTENELLE, WY (LAT 41 53 30 LONG 109 47 45)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO
MAR									
26...	1210	E.40	18.0	2200	1300	120	460	5000	46

E-Estimate.

DATE	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)
MAR									
26...	17	780	180	940	9000	2100	1.7	17300	23.5

DATE	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	IRON, DISSOLVED (UG/L AS FE)
MAR									
26...	18	8.2	4.1	1.3	2.8	.14	.04	.12	40

423414109161201 SQUAW CREEK AT MOUTH, NEAR LECKIE RANCH, WY (LAT 42 34 14 LONG 109 16 12)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)
OCT												
16...	1110	7.8	87	7.0	4.5	3	9.3	34	0	11	1.7	2.9

DATE	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)
OCT												
16...	.2	1.1	43	0	35	2.6	.8	.1	12	54	.07	1.1

DATE	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)
OCT											
16...	.00	.01	.01	.16	.04	.17	.12	.05	.03	.01	.01

DATE	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)	PHYTOPLANKTON, TOTAL (CELLS PER ML)	INVERTEBRATES, BENTHIC WET WT. (G/SQ METER)	BIOMASS CHLOROPHYLL RATIO PLANKTON (UNITS)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)
OCT											
16...	.03	9	690	8	190	1.7	25640	.078	.022	2	.04

GREEN RIVER BASIN

423414109161201 SQUAW CREEK AT MOUTH, NEAR LECKIE RANCH, WY (LAT 42 34 14 LONG 109 16 12)--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 16,77
TIME	1110
TOTAL CELLS/ML	190
DIVERSITY: DIVISION	1.9
.CLASS	1.9
..ORDER	2.0
...FAMILY	2.3
....GENUS	2.3

ORGANISM	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...OOCYSTACEAE		
....DICTYOSPHAERIUM	55#	29
...SCENEDESMACEAE		
....SCENEDESMUS	6	3
..VOLVOCALES		
...PHACOTACEAE		
....PHACOTUS	6	3
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...GOMPHONEMATACEAE		
....GOMPHONEMA	6	3
...NITZSCHIACEAE		
....NITZSCHIA	50#	26
CRYPTOPHYTA (CRYPTOMONADS)		
.CRYPTOPHYCEAE		
..CRYPTOMONADALES		
...CRYPTO,ONADACEAE		
....CRYPTOMONAS	6	3
CYANOPHYTA (BLUE-GREEN ALGAE)		
.CYANOPHYCEAE		
..HORMOGONALES		
...NOSTOCACEAE		
....ANABAENA	61#	31
EUGLENOPHYTA (EUGLENOIDS)		
.EUGLENOPHYCEAE		
..EUGLENALES		
...EUGLENACEAE		
....EUGLENA	6	3

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

423414109161201 SQUAW CREEK AT MOUTH, NEAR LECKIE RANCH, WY (LAT 42 34 14 LONG 109 16 12)--Continued

OCT. 16, 1977
1110 HOURS

IDENTIFICATION OF PERIPHYTON

ORGANISM NAME	COMMON NAME
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..CHLOROCOCCALES	
...COELASTRACEAE	
....COELASTRUM	
...OOCYSTACEAE	
....ANKISTRODESMUS	
...SCENEDESMACEAE	
....SCENEDESMUS	
..OEDOGONIALES	
...OEDOGONIACEAE	
& ....OEDOGONIUM	
..ULOTRICHALES	
...MICROSPORACEAE	
....MICROSPORA	
..ZYGNEMATALES	
...DESMIDIACEAE	PLACODERM DESMIDS
....CLOSTERIUM	
....COSMARIUM	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..CENTRALES	CENTRIC
...COSCINODISCACEAE	
....CYCLOTELLA	
....MELOSIRA	
..PENNALES	PENNATE
...CYMBELLACEAE	
....CYMBELLA	
....EPITHEMIA	
....RHOPALODIA	
...EUNOTIACEAE	
....EUNOTIA	
...FRAGILARIACEAE	
....FRAGILARIA	
& ....SYNEDRA	
...GOMPHONEMATACEAE	
....GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
& ....NAVICULA	
....NEIDIUM	
....PINNULARIA	
...NITZSCHIACEAE	
& ....NITZSCHIA	
...TABELLARIACEAE	
....TABELLARIA	
CYANOPHYTA	BLUE-GREEN ALGAE
.CYANOPHYCEAE	
..HORMOGONALES	FILAMENTOUS BL-GREEN
...NOSTOCACEAE	
....ANABAENA	
...OSCILLATORIACEAE	
....OSCILLATORIA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

423414109161201 SQUAW CREEK AT MOUTH, NEAR LECKIE RANCH, WY (LAT 42 34 14 LONG 109 16 12)--Continued

BENTHIC INVERTEBRATE ANALYSES, UCTOBER 1977 TO OCTOBER 1977

DATE	OCT 16,77
TIME	1110
TOTAL COUNT	115
DIVERSITY: PHYLUM	0.1
.CLASS	0.8
..ORDER	2.1
...FAMILY	2.4
....GENUS	3.2
....GENUS-INSECTA	3.1

ORGANISM	COUNT
ARTHROPODA (ARTHROPODS)	
.INSECTA	
..COLEOPTERA	
...ELMIDAE	
....CLEPTELMIS	4
....OPTIOSERVUS	21
...HALIPLIDAE	
....BRYCHIUS	1
..DIPTERA	
...CHIRONOMIDAE	
....CRICOTOPUS	17
....EUKIEFFERIELLA	24
....RHEOTANYTARSUS	2
....SPANIOTOMA	3
...SIMULIIDAE	
....SIMULIUM	1
...TIPULIDAE	
....DICRANOTA	2
....TIPULA	2
..EPHEMEROPTERA	
...EPHEMERELLIDAE	
....EPHEMERELLA	2
...LEPTOPHLEBIIDAE	
....PARALEPTOPHLEBIA	2
..LEPIDOPTERA	
...UNKNOWN FAMILY	
....UNKNOWN GENUS	1
..TRICHOPTERA	
...HYDROPSYCHIDAE	
....ARCTOPSYCHE	1
...LEPIDOSTOMATIDAE	
....LEPIDOSTOMA	2
..PLECOPTERA	
...CHLOROPERLIDAE	
....ALLOPERLA	4
.ARACHNIDA	
..HYDRACARINA	
...UNKNOWN FAMILY	
....UNKNOWN GENUS #3	25
MOLLUSCA (MOLLUSCS)	
.BIVALVIA	
..NUCULOIDEA	
...SPHAERIIDAE	
....PISIDIUM	1

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

422935109151401 BIG SANDY RIVER NEAR BIG SANDY OPENING, WY (LAT 42 29 35 LONG 109 15 14)

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO
OCT 16...	1140	10	50	7.5	3.0	0	10	4	3.4	.3	.7	.1

DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	IODIDE, DIS-SOLVED (MG/L AS I)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)
OCT 16...	.3	7	0	6	2.1	.3	.0	9.6	2.1	22	.03

DATE	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)
OCT 16...	.64	.01	.01	.01	.07	.04	.08	.03	.05	.01	.00

DATE	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	PHYTO-PLANK-TON, TOTAL (CELLS PER ML)	BIOMASS CHLORO-PHYLL RATIO PLANK-TON (UNITS)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
OCT 16...	.01	.03	9	40	8	70	76920	.013	.004	35	1.0

GREEN RIVER BASIN

422935109151401 BIG SANDY RIVER NEAR BIG SANDY OPENING, WY (LAT 42 29 35 LONG 109 15 14)--Continued

PHYTUPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 16,77
TIME	1140
TOTAL CELLS/ML	70
DIVERSITY: DIVISION	1.3
.CLASS	1.3
..ORDER	2.1
...FAMILY	2.9
....GENUS	3.1

ORGANISM	CELLS /ML	PER- CENT
CHLUROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...CHARACIACEAE		
....SCHROEDERIA	10	15
...OOCYSTACEAE		
....ANKISTRODESMUS	2	3
....CHLORELLA	12#	18
..CLADOPHORALES		
...CLADOPHORACEAE		
....RHIZOCLONIUM	6	9
..VOLVOCALES		
...CHLAMYDOMONADACEAE		
....CHLAMYDOMONAS	6	9
..ZYGNEMATALES		
...DESMIDIACEAE		
....COSMARIUM	2	3
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...ACHNANTHACEAE		
....ACHNANTHES	14#	21
...NAVICULACEAE		
....NAVICULA	2	3
...NITZSCHIACEAE		
....NITZSCHIA	8	12
CYANOPHYTA (BLUE-GREEN ALGAE)		
.CYANOPHYCEAE		
..CHROOCOCCALES		
...CHROOCOCCACEAE		
....COCCOCHLORIS	6	9

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

GREEN RIVER BASIN

422935109151401 BIG SANDY RIVER NEAR BIG SANDY OPENING, WY (LAT 42 29 35 LONG 109 15 14)--Continued

OCT. 16. 1977
1140 HOURS

PERIPHYTON IDENTIFICATION

ORGANISM NAME	COMMON NAME
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..OEDOGONIALES	
...OEDOGONIACEAE	
....OEDOGONIUM	
..ZYGNEMATALES	
...DESMIDIACEAE	PLACODERM DESMIDS
....CLOSTERIUM	
...ZYGNEMATACEAE	
....MOUGEOTIA	
....SPIROGYRA	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..CENTRALES	CENTRIC
...COSCINODISCACEAE	
....MELOSIRA	
..PENNALES	PENNATE
...ACHNANTHACEAE	
& ....ACHNANTHES	
...CYMBELLACEAE	
& ....CYMBELLA	
...FRAGILARIACEAE	
....FRAGILARIA	
....HANNAEA	
& ....SYNEDRA	
...GOMPHONEMATACEAE	
....GOMPHONEMA	
...MERIDIONACEAE	
....MERIDION	
...NAVICULACEAE	NAVICULOID
....DIPLONEIS	
....FRUSTULIA	
& ....NAVICULA	
....NEIDIUM	
....PINNULARIA	
....STAURONEIS	
...NITZSCHIACEAE	
& ....NITZSCHIA	
...SURIRELLACEAE	
....STENOPTEROBIA	
...TABELLARIACEAE	
....TABELLARIA	
CYANOPHYTA	BLUE-GREEN ALGAE
.CYANOPHYCEAE	
..HORMOGONALES	FILAMENTOUS BL-GREEN
...OSCILLATORIACEAE	
& ....MICROCOLEUS	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING. INVERTED MICROSCOPE

420547107272501 BIG SANDY RIVER ABOVE LITTLE SANDY CREEK, NEAR FARSON, WY (LAT 42 05 47 LONG 107 27 25)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TUR-BID-ITY (JTU)	PHYTO-PLANK-TON, TOTAL (CELLS PER ML)	BIOMASS CHLORO-PHYLL RATIO PLANK-TON (UNITS)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT										
15...	1430	--	1	1100	20200	.099	.020	28	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

420547107272501 BIG SANDY RIVER ABOVE LITTLE SANDY CREEK, NEAR FARSON, WY--Continued

(LAT 42 05 47 LONG 107 27 25)

PHYTOPLANKTON ANALYSES

DATE	OCT 15, 77	
TIME	1430	
TOTAL CELLS/ML	1,100	
DIVERSITY: DIVISION	1.1	
.CLASS	1.1	
..ORDER	1.9	
...FAMILY	3.1	
....GENUS	3.2	
ORGANISM	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...CHARACIACEAE		
....SCHROEDERIA	9	1
...COELASTRACEAE		
....COELASTRUM	75	7
...OOCYSTACEAE		
....ANKISTRODESMUS	37	3
....DICTYOSPHAERIUM	37	3
....TETRAEDRON	9	1
...SCENEDESMACEAE		
....SCENEDESMUS	93	8
..VOLVOCALES		
...CHLAMYDOMONADACEAE		
....CHLAMYDOMONAS	19	2
CHRYSOPHYTA		
.BACILLATIOPHYCEAE		
..CENTRALES		
...COSCINODISCACEAE		
....CYLOTELLA	400#	36
..PENNALES		
...ACHNANTHACEAE		
....ACHNANTHES	110	10
....COCCONEIS	9	1
...CYMBELLACEAE		
....AMPHORA	9	1
....CYMBELLA	9	1
...FRAGILARIACEAE		
....SYNEDRA	47	4
...NAVICULACEAE		
....NAVICULA	110	10
...NITZSCHIACEAE		
....NITZSCHIA	93	8
...SURIRELLACEAE		
....SURIRELLA	9	1
CYANOPHYTA (BLUE-GREEN ALGAE)		
.CYANOPHYCEAE		
..CHROCCOCCALES		
...CHROCCOCCACEAE		
....AGMENELLUM	37	3
EUGLENOPHYTA (EUGLENOIDS)		
.EUGLENOPHYCEAE		
..EUGLENALES		
...EUGLENACEAE		
....PHACUS	9	1

NOTE: # - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

420547107272501 BIG SANDY RIVER ABOVE LITTLE SANDY CREEK, NEAR FARSON, WY--Continued
(LAT 42 05 47 LONG 107 27 25)

OCT. 15, 1977
1430 HOURS

IDENTIFICATION OF PERIPHYTON

ORGANISM NAME	COMMON NAME
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..CHLOROCOCCALES	
...HYDRODICTYACEAE	
....PEDIASTRUM	
...SCENEDESMACEAE	
....SCENEDESMUS	
..ULVALES	
...ULVACEAE	
& ....ENTEROMORPHA	
..ZYGNEMATALES	
...DESMIDIACEAE	PLACODERM DESMIDS
....CLOSTERIUM	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..CENTRALES	CENTRIC
...COSCINODISCACEAE	
....CYCLOTELLA	
..PENNALES	PENNATE
...ACHNANTHACEAE	
& ....ACHNANTHES	
& ....RHOICOSPHENIA	
...CYMBELLACEAE	
....AMPHORA	
....CYMBELLA	
....RHOPALODIA	
...FRAGILARIACEAE	
....FRAGILARIA	
& ....SYNEDRA	
...GOMPHONEMATACEAE	
& ....GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
....CALONEIS	
....GYROSIGMA	
....MASTOGLOIA	
....NAVICULA	
....PINNULARIA	
...NITZSCHIACEAE	
....DENTICULA	
....NITZSCHIA	
...SURIRELLACEAE	
....SURIRELLA	
CYANOPHYTA	BLUE-GREEN ALGAE
.CYANOPHYCEAE	
..CHROCCOCCALES	COCCOID BLUE-GREENS
...CHROCCOCCAEAE	
....AGMENELLUM	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
GREEN RIVER BASIN

09214000 LITTLE SANDY CREEK NEAR ELKHORN, WY (LAT 42 32 02 LONG 109 12 15)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO
OCT												
16...	1330	7.1	7.0	5.0	1	9.4	19	1	6.0	.9	1.5	.2

DATE	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)
OCT											
16...	.7	22	0	18	5.5	.5	.1	6.3	33	.04	.63

DATE	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)
OCT											
16...	.01	.06	.01	.04	.04	.10	.05	.05	.02	.00	.00

DATE	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)	PHYTOPLANKTON, TOTAL (CELLS PER ML)	INVERTEBRATES, BENTHIC WET WT. (G/SQ METER)	BIOMASS CHLOROPHYLL RATIO PLANKTON (UNITS)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)
OCT											
16...	.00	20	110	10	70	1.2	52630	.038	.007	7	.13

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 16,77
TIME	1330
TOTAL CELLS/ML	70
DIVERSITY: DIVISION	1.4
.CLASS	1.4
..ORDER	1.4
...FAMILY	2.1
....GENUS	2.1

ORGANISM	CELLS /ML	PERCENT
CHLOROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..VOLVOCALES		
...CHLAMYDOMONADACEAE		
....CHLAMYDOMONAS	8	11
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...ACHNANTHACEAE		
....COCCONEIS	8	11
...FRAGILARIACEAE		
....SYNEDRA	8	11
...NAVICULACEAE		
....NAVICULA	16#	22
CYANOPHYTA (BLUE-GREEN ALGAE)		
.CYANOPHYCEAE		
..HORMOGONALES		
...OSCILLATORIACEAE		
....OSCILLATORIA	31#	44

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

09214000 LITTLE SANDY CREEK NEAR ELKHORN, WY (LAT 42 32 02 LONG 109 12 15)--Continued

OCT. 16, 1977
1330 HOURS

IDENTIFICATION OF PERIPHYTON

ORGANISM NAME	COMMON NAME
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..CHLOROCOCCALES	
...SCENEDESMACEAE	
....SCENEDESMUS	
..ZYGNEMATALES	
...DESMIDIACEAE	PLACODERM DESMIDS
....CLOSTERIUM	
....COSMARIUM	
....STAURASTRUM	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...ACHNANTHACEAE	
....ACHNANTHES	
....COCCONEIS	
...CYMBELLACEAE	
....AMPHORA	
....CYMBELLA	
....RHOPALODIA	
...EUNOTIACEAE	
....EUNOTIA	
...FRAGILARIACEAE	
....FRAGILARIA	
....HANNAEA	
....SYNEDRA	
...GOMPHONEMATACEAE	
....GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
....CALONEIS	
....DIPLONEIS	
....FRUSTULIA	
....GYROSIGMA	
....NAVICULA	
....PINNULARIA	
...NITZSCHIACEAE	
& ....NITZSCHIA	
...TABELLARIACEAE	
....TABELLARIA	
CYANOPHYTA	BLUE-GREEN ALGAE
.CYANOPHYCEAE	
..CHAMAESIPHONALES	
...CHAMAESIPHONACEAE	
& ....ENTOPHYSALIS	
..HORMOGONALES	FILAMENTOUS BL-GREEN
...NOSTOCACEAE	
....ANABAENA	
...OSCILLATORIACEAE	
& ....LYNGBYA	
& ....MICROCOLEUS	
...RIVULARIACEAE	
....CALOTHRIX	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

GREEN RIVER BASIN

09214000 LITTLE SANDY CREEK NEAR ELKHORN, WY (LAT 42 32 02 LONG 109 12 15)--Continued

BENTHIC INVERTEBRATE ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 16,77
TIME	1330
TOTAL COUNT	188
DIVERSITY: PHYLUM	0.1
.CLASS	0.6
..ORDER	2.6
...FAMILY	3.5
....GENUS	3.8
....GENUS-INSECTA	3.7

ORGANISM	COUNT
ARTHROPO(ARTHROPODS	
.INSECTA	
..PLECOPTERA	
...NEMOURIDAE	
....NEMOURA	2
..COLEOPTERA	
...ELMIDAE	
....OPTIOSERVUS	35
....ZAITZEVIA	1
..DIPTERA	
...CHIRONOMIDAE	
....ORTHOCLADIUS	3
....PENTANEURA	2
....POLYPEDILUM	6
....SPANIOTOMA	2
....TANYTARSUS	8
...EMPIDIDAE	
....UNKNOWN GENUS	2
...PSYCHODIDAE	
....PERICOMA	5
..EPHEMEROPTERA	
...BAETIDAE	
....BAETIS	7
....PSEUDOCLOEON	1
...EPHEMERELLIDAE	
....EPHEMERELLA	29
...HEPTAGENIIDAE	
....UNKNOWN GENUS	4
...LEPTOPHLEBIIDAE	
....PARALEPTOPHLEBIA	11
..PLECOPTERA	
...PERLODIDAE	
....UNKNOWN GENUS	17
..TRICHOPTERA	
...BRACHYCENTRIDAE	
....BRACHYCENTRUS	5
....MICRASEMA	12
...RHYACOPHILIDAE	
....RHYACOPHILA	8
..PLECOPTERA	
...CHLOROPERLIDAE	
....ALLOPERLA	4
...PERLIDAE	
....ACRONEURIA	1
.ARACHNIDA	
..HYDRACARINA	
...UNKNOWN FAMILY	
....UNKNOWN GENUS #3	21
MOLLUSCA (MOLLUSCS)	
.GASTROPODA	
..BASOMMATOPHORA	
...LYMNAEIDAE	
....LYMNAEA	1
PLATYHELMINTHES (FLATWORMS)	
.TURBELLARIA	
..TRICLADIDA	
...UNKNOWN FAMILY	
....UNKNOWN GENUS	1

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

421200109124001 NORTH PACIFIC CREEK NEAR FARSON, WY (LAT 42 12 00 LONG 109 12 40)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
MAR 27...	1300	2.3	60	7.5	5.0	45	26	1	7.9	1.4	.6

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)
MAR 27...	.1	2.8	30	0	25	4.8	1.0	2.7	37	.05	.23

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	IRON, DIS-SOLVED (UG/L AS FE)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
MAR 27...	.19	.81	.43	.38	.35	.09	.28	110	122	.76	87

DATE	TIME	TEMPER-ATURE (DEG C)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM	BED MAT. FALL DIAM. % FINER THAN 1.00 MM
MAR 27...	1300	5.0	2.3	20	30	51	65	71

DATE	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 128 MM
MAR 27...	72	74	76	79	84	84	100

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

421140109124001 PACIFIC CREEK ABOVE JACK MORROW CREEK, NEAR FARSON, WY (LAT 42 11 40 LONG 109 12 40)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
MAR										
27...	1215	61	420	8.4	1.0	600	33	0	8.8	2.7

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
MAR										
27...	81	6.1	2.4	110	1	92	140	4.1	6.3	302

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	IRON, DIS-SOLVED (UG/L AS FE)
MAR										
27...	.41	49	.08	2.7	1.7	1.0	2.6	.07	.21	1100

DATE	TIME	TEMPER-ATURE (DEG C)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM
MAR								
27...	1215	1.0	61	2570	423	82	97	100

420640108591001 JACK MORROW CREEK ABOVE ROCK CABIN CREEK, NEAR FARSON, WY (LAT 42 06 40 LONG 108 59 10)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TUR-BID-ITY (JTU)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)
MAR										
26...	1430	1.3	150	180	43	34	24	70	2.2	3.0

DATE	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)
MAR										
26...	170	1	140	180	6.2	5.3	408	.55	1.4	.12

DATE	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	IRON, DIS-SOLVED (UG/L AS FE)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
MAR										
26...	.91	.56	.35	.66	.03	.09	170	524	1.8	89

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

420640108591001 JACK MORROW CREEK ABOVE ROCK CABIN CREEK, NEAR FARSON, WY--Continued
(LAT 42 06 40 LONG 108 59 10)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	NUMBER OF SAM-PLING POINTS	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM
MAR 26...	1430	1.3	10	97	99	100

420650108594001 ROCK CABIN CREEK AT MOUTH, NEAR FARSON, WY (LAT 42 06 50 LONG 108 59 40)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)
MAR 26...	1440	8.4	400	0	36	75	550	12	9.9	550

DATE	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)
MAR 26...	13	470	1100	21	7.9	2090	2.84	47	.04	1.9

DATE	NITRO-GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	IRON, DIS-SOLVED (UG/L AS FE)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
MAR 26...	.60	1.3	.79	.14	.43	400	461	10	94

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM	BED MAT. FALL DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM
MAR 26...	1440	8.4	62	75	88	95	97	98	99	99	99	100

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

421040109140001 JACK MORROW CREEK AT MOUTH, NEAR FARSON, WY (LAT 42 10 40 LONG 109 14 00)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
MAR										
25...	1545	4.5	2000	8.5	1.0	250	330	110	46	53
26...	1145	23	--	--	5.0	--	--	--	--	--
26...	1345	13	2070	8.4	.0	300	390	100	52	64

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
MAR										
25...	280	6.7	5.1	270	1	220	630	21	5.3	1180
26...	--	--	--	--	--	--	--	--	--	--
26...	350	7.7	6.1	350	1	290	790	20	6.3	1460

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	IRON, DIS-SOLVED (UG/L AS FE)
MAR										
25...	1.60	14	.12	1.7	.00	1.7	1.2	.01	.03	20
26...	--	--	--	--	--	--	--	--	--	--
26...	1.99	51	.19	1.6	1.1	.53	1.1	.04	.12	110

DATE	TIME	TEMPER-ATURE (DEG C)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM
MAR								
25...	1545	1.0	4.5	820	10	75	98	100
26...	1145	5.0	23	921	57	70	92	100
26...	1345	.0	13	836	29	66	92	100

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

09215000 PACIFIC CREEK NEAR FARSON, WY (LAT 42 07 47 LONG 109 19 23)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
OCT											
16...	1700	1.4	3000	9.1	11.5	25	10.4	310	0	56	41
MAR											
25...	1520	45	1475	8.5	2.5	350	--	100	0	22	11
26...	0910	53	950	8.4	.0	300	--	100	0	20	13
27...	0945	112	720	8.5	1.0	650	--	76	0	15	9.3

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 105 DEG. C, DIS-SOLVED (MG/L)
OCT											
16...	610	15	3.8	420	19	380	1100	62	1.7	8.3	2200
MAR											
25...	140	6.1	2.3	170	1	140	260	10	--	5.5	--
26...	120	5.1	2.6	160	1	130	200	10	--	5.9	--
27...	140	7.0	2.4	160	2	130	230	8.3	--	4.8	--

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)
OCT											
16...	2110	2.87	7.9	41	.00	.00	.00	.32	.17	.32	.15
MAR											
25...	537	.73	65.2	--	.15	--	--	--	--	1.8	.50
26...	454	.62	65.0	--	.19	--	--	--	--	1.8	.40
27...	492	.67	149	--	.11	--	--	--	--	3.0	2.3

DATE	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	PHYTO-PLANK-TON, TOTAL (CELLS PER ML)	IN-VERTE-BRATES, BENTHIC WET WT. (G/SQ METER)	BIOMASS CHLORO-PHYLL RATIO PLANK-TON (UNITS)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L)
OCT										
16...	.17	.07	.01	.00	.00	2500	1.6	19870	.151	.012
MAR										
25...	1.3	1.4	--	.04	.12	--	--	--	--	--
26...	1.4	1.2	--	.01	.03	--	--	--	--	--
27...	.67	2.5	--	.01	.03	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

09215000 PACIFIC CREEK NEAR FARSON, WY (LAT 42 07 47 LONG 109 19 23)--Continued

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BORON, DISSOLVED (UG/L AS B)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)
OCT								
16...	1700	10	4	0	460	0	10	0
MAR								
25...	1520	--	--	--	--	--	--	--
26...	0910	--	--	--	--	--	--	--
27...	0945	--	--	--	--	--	--	--

DATE	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	ZINC, DISSOLVED (UG/L AS ZN)
OCT								
16...	20	2	20	.0	5	0	0	8
MAR								
25...	250	--	--	--	--	--	--	--
26...	2100	--	--	--	--	--	--	--
27...	330	--	--	--	--	--	--	--

DATE	TIME	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DISSOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DISSOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DISSOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DISSOLVED (UG/L AS U)
OCT									
16...	1700	<36	3.2	7.6	2.6	6.2	2.1	.08	2.9

DATE	TIME	TEMPERATURE (DEG C)	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM
OCT								
16...	1700	11.5	1.4	46	.17	--	--	--
MAR								
25...	1520	2.5	45	1060	129	70	98	100
26...	0910	.0	53	697	100	89	98	100
27...	0945	1.0	112	2100	635	71	96	100

DATE	TIME	TEMPERATURE (DEG C)	STREAMFLOW, INSTANTANEOUS (CFS)	NUMBER OF SAMPLING POINTS	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM	BED MAT. FALL DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM
MAR											
26...	0910	.0	53	25	44	53	63	87	96	99	100

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

09215000 PACIFIC CREEK NEAR FARSON, WY (LAT 42 07 47 LONG 109 19 23)--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 16,77
TIME	1700
TOTAL CELLS/ML	2500
DIVERSITY: DIVISION	1.0
.CLASS	1.1
..ORDER	1.2
...FAMILY	2.0
....GENUS	2.7

ORGANISM	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...OOCYSTACEAE		
....OOCYSTIS	*	0
..VOLVOCALES		
...CHLAMYDOMONADACEAE		
....CHLAMYDOMONAS	36	1
..ZYGNEMATALES		
...ZYGNEMATACEAE		
....MOUGEOTIA	130	5
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...NAVICULACEAE		
....ENTOMONEIS	59	2
..CENTRALES		
...COSCINODISCACEAE		
....CYCLOTELLA	*	0
..PENNALES		
...ACHNANTHACEAE		
....RHOICOSPHENIA	*	0
...DIATOMACEAE		
....DIATOMA	110	4
...FRAGILARIACEAE		
....SYNEDRA	*	0
...NAVICULACEAE		
....GYROSIGMA	36	1
....MASTOGLOIA	*	0
....NAVICULA	71	3
...NITZSCHIACEAE		
....NITZSCHIA	110	4
...SURIRELLACEAE		
....SURIRELLA	24	1
.CHRYSOPHYCEAE		
..CHRYSOMONADALES		
...MALLOMONADACEAE		
....MALLOMONAS	*	0
CYANOPHYTA (BLUE-GREEN ALGAE)		
.CYANOPHYCEAE		
..HORMOGONALES		
...NOSTOCACEAE		
....ANABAENA	260	10
...OSCILLATORIACEAE		
....OSCILLATORIA	720#	29
....SPIRULINA	890#	35

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

09215000 PACIFIC CREEK NEAR FARSON, WY (LAT 42 07 47 LONG 109 19 23)--Continued

OCT. 16, 1977
1700 HOURS

IDENTIFICATION OF PERIPHYTON

ORGANISM NAME	COMMON NAME
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..CLADOPHORALES	
...CLADOPHORACEAE	
& ....CLADOPHORA	
..ZYGNEMATALES	
...ZYGNEMATACEAE	
....SPIROGYRA	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...NAVICULACEAE	NAVICULOID
....ENTOMONEIS	
...ACHNANTHACEAE	
& ....RHOICOSPHENIA	
...CYMBELLACEAE	
....CYMBELLA	
....EPITHEMIA	
....RHOPALODIA	
...DIATOMACEAE	
& ....DIATOMA	
...FRAGILARIACEAE	
& ....SYNEDRA	
...NAVICULACEAE	NAVICULOID
....GYROSIGMA	
....MASTOGLOIA	
....NAVICULA	
...NITZSCHIACEAE	
....NITZSCHIA	
...SURIRELLACEAE	
....SURIRELLA	
CYANOPHYTA	BLUE-GREEN ALGAE
.CYANOPHYCEAE	
..HORMOGONALES	FILAMENTOUS BL-GREEN
...NOSTOCACEAE	
....ANABAENA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

GREEN RIVER BASIN

09215000 PACIFIC CREEK NEAR FARSON, WY (LAT 42 07 47 LONG 109 19 23)--Continued

BENTHIC INVERTEBRATE ANALYSES, UCTOBER 1977 TO OCTOBER 1977

DATE	OCT 16,77
TIME	1700
TOTAL COUNT	57
DIVERSITY: PHYLUM	0.2
.CLASS	0.4
..ORDER	2.2
...FAMILY	2.8
....GENUS	3.1
....GENUS-INSECTA	2.6

ORGANISM	COUNT
ARTHROPODA (ARTHROPODS)	
.CRUSTACEA	
..AMPHIPODA	
...GAMMARIDAE	
....GAMMARUS	2
.INSECTA	
..DIPTERA	
...CERATOPOGONIDAE	
....UNKNOWN GENUS	1
...CHIRONOMIDAE	
....CRYPTOCHIRONOMUS	1
....POLYPEDILUM	3
....RHEOTANYTARSUS	2
...SIMULIIDAE	
....SIMULIUM	10
..EPHEMEROPTERA	
...BAETIDAE	
....CALLIBAETIS	14
...CAENIDAE	
....CAENIS	4
..HEMIPTERA	
...CORIXIDAE	
....HESPEROCORIXA	1
....SIGARA	3
..ODONATA	
...COENAGRIIDAE	
....ISCHNURA	13
..TRICHOPTERA	
...LIMNEPHILIDAE	
....LIMNEPHILUS	1
MOLLUSCA (MOLLUSCS)	
.GASTROPODA	
..BASOMMATOPHORA	
...LYMNAEIDAE	
....LYMNAEA	2

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

420545109272001 LITTLE SANDY RIVER NEAR MOUTH, NEAR FARSON, WY (LAT 42 05 45 LONG 109 27 20)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
OCT 15...	1400	5.4	3450	8.4	13.0	5	9.6	--	--	--	--
MAR 25...	1500	89	1025	8.2	.0	450	--	170	30	38	18

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)
OCT 15...	--	--	--	--	--	--	--	--	--	--	--
MAR 25...	190	6.4	3.9	170	0	140	450	24	6.6	816	1.11

DATE	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	IRON, DIS-SOLVED (UG/L AS FE)	PHYTO-PLANK-TON, TOTAL (CELLS PER ML)	IN-VERTE-BRATES, BENTHIC WET WT. (G/SQ METER)
OCT 15...	--	--	--	--	--	--	--	--	--	5500	.1
MAR 25...	196	.21	2.8	2.2	.59	1.7	.03	.09	540	--	--

DATE	TIME	TEMPER-ATURE (DEG C)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM
OCT 15...	1400	13.0	5.4	30	.44	--	--	--
MAR 25...	1500	.0	89	1800	433	74	94	100

420545109272001 LITTLE SANDY RIVER NEAR MOUTH, NEAR FARSON, WY (LAT 42 05 45 LONG 109 27 20)--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 15,77
TIME	1400
TOTAL CELLS/ML	5500
DIVERSITY: DIVISION	1.3
.CLASS	1.3
..ORDER	1.5
...FAMILY	1.7
....GENUS	2.2

ORGANISM	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...OOCYSTACEAE		
....ANKISTRODESMUS	350	6
....DICTYOSPHAERIUM	3300#	59
....OOCYSTIS	96	2
...SCENEDESMACEAE		
....SCENEDESMUS	96	2
..VOLVOCALES		
...CHLAMYDOMONADACEAE		
....CHLAMYDOMONAS	220	4
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..CENTRALES		
...COSCINODISCACEAE		
....CYCLOTELLA	64	1
..PENNALES		
...CYMBELLACEAE		
....CYMBELLA	32	1
....EPITHEMIA	64	1
...NAVICULACEAE		
....CALONEIS	32	1
....NAVICULA	32	1
...NITZSCHIACEAE		
....NITZSCHIA	160	3
CYANOPHYTA (BLUE-GREEN ALGAE)		
.CYANOPHYCEAE		
..CHROOCOCCALES		
...CHROOCOCCACEAE		
....ANACYSTIS	580	10
EUGLENOPHYTA (EUGLENOIDS)		
.EUGLENOPHYCEAE		
..EUGLENALES		
...EUGLENACEAE		
....TRACHELOMONAS	510	9

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

420545109272001 LITTLE SANDY RIVER NEAR MOUTH, NEAR FARSON, WY (LAT 42 05 45 LONG 109 27 20)--Continued

OCT. 15, 1977
1400 HOURS

IDENTIFICATION OF PERIPHYTON

ORGANISM NAME	COMMON NAME
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..CHLOROCOCCALES	
...SCENEDESMACEAE	
....ACTINASTRUM	
....SCENEDESMUS	
..CLADOPHORALES	
...CLADOPHORACEAE	
& ....CLADOPHORA	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...ACHNANTHACEAE	
& ....RHOICOSPHENIA	
...CYMBELLACEAE	
....AMPHORA	
....CYMBELLA	
& ....EPITHEMIA	
....RHOPALODIA	
...FRAGILARIACEAE	
....FRAGILARIA	
& ....SYNEDRA	
...NAVICULACEAE	NAVICULOID
....GYROSIGMA	
....NAVICULA	
...NITZSCHIACEAE	
....CYLINDROTHECA	
....NITZSCHIA	
...SURIRELLACEAE	
....SURIRELLA	
CYANOPHTYA	BLUE-GREEN ALGAE
.CYANOPHYCEAE	
..HORMOGONALES	FILAMENTOUS BL-GREEN
...NOSTOCACEAE	
....ANABAENA	
...OSCILLATORIACEAE	
....LYNGBYA	
....SPIRULINA	
EUGLENOPHYTA	EUGLENOIDS
.EUGLENOPHYCEAE	
..EUGLENALES	
...EUGLENACEAE	
....TRACHELOMONAS	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

420545109272001 LITTLE SANDY RIVER NEAR MOUTH, NEAR FARSON, WY (LAT 42 05 45 LONG 109 27 20)--Continued

BENTHIC INVERTEBRATE ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 15,77
TIME	1400
TOTAL COUNT	37
DIVERSITY: PHYLUM	0.0
.CLASS	0.2
..ORDER	1.6
...FAMILY	2.3
....GENUS	2.5
....GENUS-INSECTA	2.4

ORGANISM	COUNT
ARTHROPODA (ARTHROPODS)	
.INSECTA	
..DIPTERA	
...CHIRONOMIDAE	
....MICROPSECTRA	5
....RHEOTANYTARSUS	1
....TANYTARSUS	2
..EPHEMEROPTERA	
...BAETIDAE	
....PSEUDOCLOEON	18
...EPHEMERELLIDAE	
....EPHEMERELLA	1
...HEPTAGENIIDAE	
....UNKNOWN GENUS	4
..PLECOPTERA	
...UNKNOWN FAMILY	
....UNKNOWN GENUS	1
..TRICHOPTERA	
...LIMNEPHILIDAE	
....APATANIA	2
..PLECOPTERA	
...CHLOROPERLIDAE	
....ALLOPERLA	1
...PERLIDAE	
....ACRONEURIA	1
.ARACHNIDA	
..HYDRACARINA	
...UNKNOWN FAMILY	
....UNKNOWN GENUS #3	1

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

420542109274201 BIG SANDY RIVER BELOW LITTLE SANDY CREEK, NEAR FARSON, WY (LAT 42 05 42 LONG 109 27 42)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)
OCT 15...	1415	17	3000	8.7	11.5	1	9.8	870	640	220	79	430

DATE	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)
OCT 15...	6.3	4.4	280	1	230	1500	64	1.0	10	2450	3.33	114

DATE	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)
OCT 15...	.18	.01	.00	.31	.29	.32	.03	.29	.00	.00	.00

DATE	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)	PHYTOPLANKTON, TOTAL (CELLS PER ML)	INVERTEBRATES, BENTHIC WET WT. (G/SQ METER)	BIOMASS CHLOROPHYLL RATIO PLANKTON (UNITS)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)
OCT 15...	.00	560	20	60	2700	.0	7634	.131	.028	51	2.4

GREEN RIVER BASIN

420542109274201 BIG SANDY RIVER BELOW LITTLE SANDY CREEK, NEAR FARSON, WY--Continued
(LAT 42 05 42 LONG 109 27 42)

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 15,77
TIME	1415
TOTAL CELLS/ML	2700
DIVERSITY: DIVISION	1.6
.CLASS	1.6
..ORDER	2.1
...FAMILY	2.9
....GENUS	3.3

ORGANISM	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...OOCYSTACEAE		
....ANKISTRODESMUS	37	1
....DICTYOSPHAERIUM	670#	25
....SELENASTRUM	37	1
...SCENEDESMACEAE		
....SCENEDESMUS	260	10
....TETRASTRUM	75	3
..VOLVOCALES		
...CHLAMYDOMONADACEAE		
....CARTERIA	19	1
....CHLAMYDOMONAS	110	4
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..CENTRALES		
...COSCINODISCACEAE		
....CYCLOTELLA	320	12
..PENNALES		
...ACHNANTHACEAE		
....ACHNANTHES	370	14
....COCCONEIS	19	1
...FRAGILARIACEAE		
....SYNEDRA	37	1
...GOMPHONEMATACEAE		
....GOMPHONEMA	37	1
...NAVICULACEAE		
....NAVICULA	19	1
...NITZSCHIACEAE		
....NITZSCHIA	190	7
...SURIRELLACEAE		
....SURIRELLA	19	1
CRYPTOPHYTA (CRYPTOMONADS)		
.CRYPTOPHYCEAE		
..CRYPTOMONADALES		
...CRYPTOCHRYSIDACEAE		
....RHODOMONAS	19	1
EUGLENOPHYTA (EUGLENOIDS)		
.EUGLENOPHYCEAE		
..EUGLENALES		
...EUGLENACEAE		
....TRACHELOMONAS	390	15
PYRRHOPHYTA (FIRE ALGAE)		
.DINOPHYCEAE		
..GYMNODINIALES		
...GYMNODINIACEAE		
....GYMNODINIUM	19	1

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

420542109274201 BIG SANDY RIVER BELOW LITTLE SANDY CREEK, NEAR FARSON, WY--Continued
(LAT 42 05 42 LONG 109 27 42)

OCT. 15, 1977
1415 HOURS

PERIPHYTON IDENTIFICATION

_ORGANISM__NAME______________	_COMMON__NAME______
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..CHLOROCOCCALES	
...SCENEDESMACEAE	
....ACTINASTRUM	
....SCENEDESMUS	
..ULVALES	
...ULVACEAE	
& ....ENTEROMORPHA	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..CENTRALES	CENTRIC
...COSCINODISCACEAE	
....CYCLOTELLA	
..PENNALES	PENNATE
...ACHNANTHACEAE	
& ....ACHNANTHES	
....COCCONEIS	
....RHOICOSPHENIA	
...CYMBELLACEAE	
....AMPHORA	
& ....CYMBELLA	
...FRAGILARIACEAE	
....SYNEDRA	
...GOMPHONEMATACEAE	
& ....GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
....CALONEIS	
....NAVICULA	
...NITZSCHIACEAE	
....DENTICULA	
....NITZSCHIA	
...SURIRELLACEAE	
....SURIRELLA	
CYANOPHYTA	BLUE-GREEN ALGAE
.CYANOPHYCEAE	
..CHROCCOCCALES	COCCOID BLUE-GREENS
...CHROCCOCCAEAE	
....AGMENELLUM	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

BENTHIC INVERTEBRATE ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 15,77
TIME	1415
TOTAL COUNT	0
DIVERSITY: PHYLUM	0.0
.CLASS	0.0
..ORDER	0.0
...FAMILY	0.0
....GENUS	0.0
....GENUS-INSECTA	0.0

ORGANISM	COUNT

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

415125109464501 BIG SANDY RIVER AT MOUTH, NEAR LITTLE COLORADO DESERT, WY (LAT 41 51 25 LONG 109 46 45)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)
OCT 15...	1215	48	4250	8.3	9.0	20	1300	1100	260	160
MAR 25...	1000	E120	2150	8.3	1.0	350	650	460	140	73

E-Estimate.

DATE	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)
OCT 15...	560	6.7	4.7	290	0	240	2100	59	1.0	9.7
MAR 25...	330	5.6	4.2	230	0	190	1100	22	--	8.0

DATE	SOLIDS, RESIDUE AT 105 DEG. C, DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)
OCT 15...	4000	3300	4.49	429	120	.10	.02	.06	.28	.29
MAR 25...	--	1790	2.43	580	--	.33	--	--	--	--

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHURUS, TOTAL (MG/L AS P)	PHUSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	PHYTOPLANKTON, TOTAL (CELLS PER ML)	INVERTEBRATES, BENTHIC WET WT. (G/SQ METER)
OCT 15...	.30	.00	.35	.03	.00	.00	.00	3300	.0
MAR 25...	1.8	1.2	.61	1.1	--	.01	.03	--	--

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BORON, DISSOLVED (UG/L AS B)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)
OCT 15...	1215	20	2	100	520	5	4	0
MAR 25...	1000	--	--	--	--	--	--	--

DATE	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	ZINC, DISSOLVED (UG/L AS ZN)
OCT 15...	40	32	10	.0	8	3	0	10
MAR 25...	830	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

415125109464501 BIG SANDY RIVER AT MOUTH, NEAR LITTLE COLORADO DESERT, WY--Continued
(LAT 41 51 25 LONG 109 46 45)

DATE	TIME	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS- SOLVED (UG/L AS U)
OCT									
15...	1215	<44	4.4	<10	5.3	<5.8	4.7	.06	.2

DATE	TIME	TEMPER- ATURE (DEG C)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM
OCT								
15...	1215	9.0	48	102	13	--	--	--
MAR								
25...	1000	1.0	E120	1130	366	81	94	100

E-Estimate.

DATE	TIME	TEMPER- ATURE (DEG C)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	NUMBER OF SAM- PLING POINTS	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM	BED MAT. FALL DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM
MAR												
25...	1000	1.0	E120	21	0	2	7	46	86	94	99	100

E-Estimate.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

415125109464501 BIG SANDY RIVER AT MOUTH, NEAR LITTLE COLORADO DESERT, WY--Continued
(LAT 41 51 25 LONG 109 46 45)

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 15,77
TIME	1215
TOTAL CELLS/ML	3300
DIVERSITY: DIVISION	1.4
.CLASS	1.4
..ORDER	1.9
...FAMILY	3.2
....GENUS	3.4

ORGANISM	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...CHARACIACEAE		
....SCHROEDERIA	17	1
...OOCYSTACEAE		
....ANKISTRODESMUS	34	1
....DICTYOSPHAERIUM	190	6
...SCENEDESMACEAE		
....SCENEDESMUS	84	3
..VOLVOCALES		
...CHLAMYDOMONADACEAE		
....CHLAMYDOMONAS	84	3
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...NAVICULACEAE		
....ENTOMONEIS	220	7
..CENTRALES		
...COSCINODISCACEAE		
....CYCLOTELLA	68	2
....MELOSIRA	17	1
..PENNALES		
...ACHNANTHACEAE		
....ACHNANTHES	68	2
....COCCONEIS	17	1
...CYMBELLACEAE		
....CYMBELLA	17	1
...DIATOMACEAE		
....DIATOMA	790#	24
...FRAGILARIACEAE		
....SYNEDRA	140	4
...GOMPHONEMATACEAE		
....GOMPHONEMA	17	1
...NAVICULACEAE		
....NAVICULA	270	8
...NITZSCHIACEAE		
....NITZSCHIA	240	7
...SURIRELLACEAE		
....SURIRELLA	17	1
CRYPTOPHYTA (CRYPTOMONADS)		
.CRYPTOPHYCEAE		
..CRYPTOMONADALES		
...CRYPTO,ONADACEAE		
....CRYPTOMONAS	17	1
CYANOPHYTA (BLUE-GREEN ALGAE)		
.CYANOPHYCEAE		
..CHROOCOCCALES		
...CHROOCOCCACEAE		
....AGMENELLUM	270	8
..HORMOGONALES		
...NOSTOCACEAE		
....ANABAENA	690#	21
EUGLENOPHYTA (EUGLENOIDS)		
.EUGLENOPHYCEAE		
..EUGLENALES		
...EUGLENACEAE		
....TRACHELOMONAS	17	1

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

415125109464501 BIG SANDY RIVER AT MOUTH, NEAR LITTLE COLORADO DESERT, WY--Continued

(LAT 41 51 25 LONG 109 46 45)

OCT. 15, 1977
1215 HOURS

IDENTIFICATION OF PERIPHYTON

ORGANISM NAME	COMMON NAME
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..CHLOROCOCCALES	
...SCENEDESMACEAE	
....SCENEDESMUS	
..ULVALES	
...ULVACEAE	
& ....ENTEROMORPHA	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...ACHNANTHACEAE	
....COCCONEIS	
& ....RHOICOSPHENIA	
...DIATOMACEAE	
& ....DIATOMA	
...FRAGILARIACEAE	
& ....SYNEDRA	
...NAVICULACEAE	NAVICULOID
....GYROSIGMA	
....NAVICULA	
...SURIRELLACEAE	
....CYMATOPLEURA	
....SURIRELLA	
CYANOPHYTA	BLUE-GREEN ALGAE
.CYANOPHYCEAE	
..HORMOGONALES	FILAMENTOUS BL-GREEN
...OSCILLATORIACEAE	
....SPIRULINA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

BENTHIC INVERTEBRATE ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 15,77
TIME	1215
TOTAL COUNT	1
DIVERSITY: PHYLUM	0.0
.CLASS	0.0
..ORDER	0.0
...FAMILY	0.0
....GENUS	0.0
....GENUS-INSECTA	0.0

ORGANISM	COUNT
ARTHROPODA (ARTHROPODS)	
.INSECTA	
..TRICHOPTERA	
...LEPTOCERIDAE	
....NECTOPSYCHE	1

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

415105109471301 GREEN RIVER ABOVE FREEZEOUT ISLAND, WY (LAT 41 51 05 LONG 109 47 13)

DATE	TIME	TEMPERATURE (DEG C)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)
OCT 19...	1716	12.0	170	33	43	15	28	.9	1.8	160	3

DATE	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)
OCT 19...	140	86	5.2	.2	2.3	263	.36	.00	.03	.00	.16

DATE	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)
OCT 19...	.15	.19	.04	.15	.01	.01	.00	.00	40	10	8

415052109464401 EIGHT MILE CREEK AT FREEZEOUT ISLAND, WY (LAT 41 50 52 LONG 109 46 44)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO
MAR 25...	1115	.10	800	8.8	8.0	16	0	6.1	.3	80	8.6

DATE	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)
MAR 25...	1.0	180	5	160	27	7.8	7.1	227	.31	.06	.90

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	IRON, DISSOLVED (UG/L AS FE)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
MAR 25...	1.4	1.0	.39	1.6	.06	.18	120	229	.06	99

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

414906109473601 GREEN RIVER BELOW FREEZEOUT ISLAND, WY (LAT 41 49 06 LONG 109 47 36)

DATE	TIME	TEMPERATURE (DEG C)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)
OCT 19...	1710	11.5	260	100	60	26	77	2.1	2.0	180	5

DATE	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)
OCT 19...	160	220	8.9	.3	2.6	491	.67	.00	.02	.00	.16

DATE	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)
OCT 19...	.15	.18	.03	.15	.01	.01	.00	.00	70	20	4

414919109475301 DRY CREEK AT MOUTH, NEAR FREEZEOUT ISLAND, WY (LAT 41 49 19 LONG 109 47 53)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)
MAR 25...	1150	3.2	975	8.2	6.5	110	24	35	6.6	120

DATE	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)
MAR 25...	4.9	2.9	110	0	90	220	35	7.4	483	.66

DATE	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	IRON, DISSOLVED (UG/L AS FE)
MAR 25...	4.1	.35	1.1	.72	.38	.32	.04	.12	60

DATE	TIME	TEMPERATURE (DEG C)	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM
MAR 25...	1150	6.5	3.2	2290	20	99	100

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

414150109414101 GREEN RIVER AT DEMMING DRAW, NEAR BIG ISLAND, WY (LAT 41 41 50 LONG 109 41 41)

DATE	TIME	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)
OCT											
19...	1710	11.5	250	100	58	26	80	2.2	2.1	180	0

DATE	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)
OCT											
19...	150	250	9.8	.3	2.4	517	.70	.00	.57	.00	.24

DATE	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
OCT											
19...	.05	.81	.76	.05	.10	.01	.00	.00	80	10	4

413844109361601 GREEN RIVER NEAR AUSTIN RANCH, WY (LAT 41 38 44 LONG 109 36 16)

DATE	TIME	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)
OCT											
19...	1700	12.0	260	120	60	26	73	2.0	2.1	170	0

DATE	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)
OCT											
19...	140	240	9.7	.3	2.3	497	.68	.00	.04	.00	.49

DATE	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
OCT											
19...	.42	.53	.11	.42	.03	.02	.00	.00	80	30	8

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

413501109325801 GREEN RIVER NEAR GAENSSLEN RANCH, NEAR GREEN RIVER, WY (LAT 41 35 01 LONG 109 32 56)

DATE	TIME	TEMPERATURE (DEG C)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)
OCT 19...	1653	12.0	260	120	59	27	79	2.1	2.2	170	2

DATE	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)
OCT 19...	140	250	9.9	.3	2.3	516	.70	.00	.03	.00	.27

DATE	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)
OCT 19...	.32	.30	.00	.32	.03	.02	.00	.00	80	50	0

420823108220901 RED CREEK AT ROCKY CROSSING, WY (LAT 42 08 23 LONG 108 22 09)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)
MAR 29...	1530	E3.0	325	8.2	10.0	1400	48	0	15	2.6	53

E-Estimate.

DATE	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 105 DEG. C, DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)
MAR 29...	3.3	2.5	140	0	110	56	2.1	6.4	210	207	.28

DATE	SOLIDS, DISSOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	IRON, DISSOLVED (UG/L AS FE)
MAR 29...	1.6	2900	.00	3.4	2.1	1.3	2.8	.03	.09	160

DATE	TIME	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DISSOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DISSOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DISSOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DISSOLVED (UG/L AS U)
MAR 29...	1530	4.6	170	7.2	140	6.4	130	.15	2.8

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

420425108073001 LOST CREEK BELOW EAGLES NEST SPRING, NEAR BAIROIL, WY (LAT 42 04 25 LONG 108 07 30)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO
MAR 29...	1450	3.0	460	8.1	17.0	150	86	3	26	5.0	69	3.2

DATE	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 105 DEG. C, DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)
MAR 29...	3.3	100	0	82	120	8.6	6.6	300	289	.39	2.34

DATE	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
MAR 29...	190	.16	.88	.55	.33	.12	.07	.21	181	1.5	99

DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)
MAR 29...	1450	4	100	1	10	5	3300	120

DATE	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	SELENIUM, TOTAL (UG/L AS SE)	SILVER, TOTAL RECOVERABLE (UG/L AS AG)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)
MAR 29...	6	60	.0	1	0	0	30

DATE	TIME	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DISSOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DISSOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DISSOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DISSOLVED (UG/L AS U)
MAR 29...	1450	25	35	18	36	16	32	.12	21

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

412450108231001 LANEY WASH AT FORT LA CLEDE, WY (LAT 41 24 50 LONG 108 23 10)

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)
JUN 26...	1100	.20	4200	8.6	19.0	65	7.8	200	0	42	23
AUG 05...	1630	E.10	5000	8.8	27.0	40	6.8	210	0	47	22

E-Estimate.

DATE	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
JUN 26...	1100	34	2.4	290	1	240	1900	210	2.1	8.3	3430
AUG 05...	1000	30	2.7	270	11	240	1800	180	2.2	8.3	3210

DATE	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)
JUN 26...	4.66	1.85	.03	.00	.18	.18	.02	.00	.00	.00
AUG 05...	4.37	.87	1.2	.00	.77	.77	.08	.03	.01	.03

DATE	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)	PHYTOPLANKTON, TOTAL (CELLS PER ML)	INVERTEBRATES, BENTHIC WET WT. (G/SQ METER)	BIOMASS CHLOROPHYLL RATIO PLANKTON (UNITS)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)
JUN 26...	790	60	20	9700	.5	319300	.435	.000	--	--
AUG 05...	640	50	10	350	.0	186500	1.70	.066	405	.11

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

412450108231001 LANEY WASH AT FORT LA CLEDE, WY (LAT 41 24 50 LONG 108 23 10)--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO AUGUST 1978

DATE	JUN 26,78	AUG 5,78
TIME	1100	1630
TOTAL CELLS/ML	9700	350
DIVERSITY: DIVISION	0.7	0.5
.CLASS	0.7	0.5
..ORDER	0.8	0.9
...FAMILY	1.9	1.2
....GENUS	1.9	1.2

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)				
.CHLOROPHYCEAE				
..CHLOROCOCCALES				
...CHARACIACEAE				
....SCHROEDERIA	--	-	20	6
...OOCYSTACEAE				
....ANKISTRODESMUS	68	1	--	-
...SCENEDESMACEAE				
....SCENEDESMUS	--	-	270#	78
....TETRASTRUM	68	1	--	-
..VOLVOCALES				
...CHLAMYDOMONADACEAE				
....CHLAMYDOMONAS	140	1	20	6
CHRYSOPHYTA				
.BACILLARIOPHYCEAE				
..CENTRALES				
...COSCINODISCACEAE				
....CYCLOTELLA	--	-	20	6
..PENNALES				
...CYMBELLACEAE				
....CYMBELLA	140	1	--	-
...FRAGILARIACEAE				
....SYNEDRA	68	1	--	-
...GOMPHONEMATACEAE				
....GOMPHONEMA	200	2	--	-
...NAVICULACEAE				
....MASTOGLOIA	--	-	20	6
....NAVICULA	270	3	--	-
....PINNULARIA	68	1	--	-
...NITZSCHIACEAE				
....NITZSCHIA	140	1	--	-
...SURIRELLACEAE				
....SURIRELLA	340	4	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)				
.CYANOPHYCEAE				
..HORMOGONALES				
...NOSTOCACEAE				
....ANABAENA	5300#	55	--	-
...OSCILLATORIACEAE				
....OSCILLATORIA	2900#	30	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

412450108231001 LANEY WASH AT FORT LA CLEDE, WY (LAT 41 24 50 LONG 108 23 10)--Continued

JUNE 26, 1978
1100 HOURS

PERIPHYTON IDENTIFICATION

ORGANISM NAME	COMMON NAME
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..OEDOGONIALES	
...OEDUGUNIACEAE	
....OEDOGONIUM	
& ..ULOTRICHALES	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...NAVICULACEAE	NAVICULOID
....ENTOMONEIS	
...CYMBELLACEAE	
....CYMBELLA	
....RHOPALODIA	
...FRAGILARIACEAE	
....SYNEDRA	
...GOMPHONEMATACEAE	
....GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
....GYROSIGMA	
....NAVICULA	
...NITZSCHIACEAE	
....NITZSCHIA	
...SURIRELLACEAE	
....SURIRELLA	
CYANOPHYTA	BLUE-GREEN ALGAE
.CYANOPHYCEAE	
..HORMOGONALES	FILAMENTOUS BL-GREEN
...NOSTOCACEAE	
....APHANIZOMENON	
...OSCILLATORIACEAE	
& ....OSCILLATORIA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: GLASS CHAMBER(12MM CIRC), INVERTED MICROSCOPE

AUG. 5, 1978
1630 HOURS

PERIPHYTON IDENTIFICATION

ORGANISM NAME	COMMON NAME
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..CHLOROCOCCALES	
...COELASTRACEAE	
....COELASTRUM	
..ULOTRICHALES	
...MICROSPORACEAE	
....CYLINDROCAPSA	
...ULOTRICHACEAE	
& ....ULOTHRIX	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...CYMBELLACEAE	
....EPITHEMIA	
& ....RHOPALODIA	
...GOMPHONEMATACEAE	
....GOMPHONEIS	
....GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
....GYROSIGMA	
....NAVICULA	
...NITZSCHIACEAE	
....DENTICULA	
....NITZSCHIA	
...SURIRELLACEAE	
....SURIRELLA	
CYANOPHYTA	BLUE-GREEN ALGAE
.CYANOPHYCEAE	
..HORMOGONALES	FILAMENTOUS BL-GREEN
...NOSTOCACEAE	
....ANABAENA	
EUGLENOPHYTA	EUGLENOIDS
.EUGLENOPHYCEAE	
..EUGLENALES	
...EUGLENACEAE	
....TRACHFLOMONAS	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: SLIDE MOUNTING, INVERTED MICROSCOPE

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

412450108231001 LANEY WASH AT FORT LA CLEDE, WY (LAT 41 24 50 LONG 108 23 10)--Continued

BENTHIC INVERTEBRATE ANALYSES, OCTOBER 1977 TO AUGUST 1978

DATE	JUN 26,78	AUG 5,78
TIME	1100	1630
TOTAL COUNT	50	1
DIVERSITY: PHYLUM	0.0	0.0
.CLASS	0.4	0.0
..ORDER	1.6	0.0
...FAMILY	2.2	0.0
....GENUS	2.4	0.0
....GENUS-INSECTA	2.1	0.0
ORGANISM	COUNT	COUNT
ARTHROPOD(ARTHROPODS)		
.CRUSTACEA		
..AMPHIPODA		
...TALITRIDAE		
....HYALLELA		
.....H.AZTECA	2	--
.INSECTA		
..COLEOPTERA		
...DYTISCIDAE		
....HYDROPORUS	1	--
..DIPTERA		
...CHIRONOMIDAE		
....CONCHAPELOPIA	1	--
....CRICOTOPUS	15	--
...EMPIDIDAE		
....UNKNOWN GENUS	3	--
...SIMULIIDAE		
....SIMULIUM	3	--
..EPHEMEROPTERA		
...BAETIDAE		
....BAETIS	21	1
...EPHEMERELLIDAE		
....EPHEMERELLA	2	--
..PLECOPTERA		
...NEMOURIDAE		
....NEMOURA	1	--
.ARACHNIDA		
..HYDRACARINA		
...UNKNOWN FAMILY		
....UNKNOWN GENUS #3	1	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

413200108344201 BITTER CREEK BELOW PATRICK DRAW, NEAR BITTER CREEK, WY (LAT 41 32 00 LONG 108 34 42)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)
JUN 26...	1600	E.10	5900	8.6	26.0	6	8.2	2300	2000	200	430
AUG 05...	1230	E.10	5500	8.4	25.0	10	7.8	690	440	95	110

E-Estimate.

DATE	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
JUN 26...	720	6.6	25	290	0	240	2600	730	.8	1.6	4850
AUG 05...	790	13	26	300	0	250	720	1000	.7	4.1	2900

DATE	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)
JUN 26...	6.60	1.3	.04	.01	1.3	1.3	.03	.01	.01	.03
AUG 05...	3.94	--	.09	.06	1.1	1.2	.04	.10	.09	.28

DATE	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)	PHYTOPLANKTON, TOTAL (CELLS PER ML)	INVERTEBRATES, BENTHIC WET WT. (G/SQ METER)	BIOMASS CHLOROPHYLL RATIO PLANKTON (UNITS)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)
JUN 26...	640	60	470	9100	1.3	50380	2.86	.078	--	--
AUG 05...	430	30	210	5900	.1	--	--	--	111	.03

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

413200108344201 BITTER CREEK BELOW PATRICK DRAW, NEAR BITTER CREEK, WY--Continued
(LAT 41 32 00 LONG 108 34 42)

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO AUGUST 1978

DATE	JUN 26,78	AUG 5,78
TIME	1600	1230
TOTAL CELLS/ML	9100	5900
DIVERSITY: DIVISION	1.3	1.0
.CLASS	1.3	1.0
..ORDER	1.4	1.5
...FAMILY	2.2	2.3
....GENUS	2.3	2.4

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)				
.CHLOROPHYCEAE				
..CHLOROCOCCALES				
...CHARACIACEAE				
....SCHROEDERIA	--	-	2800#	47
...OOCYSTACEAE				
....ANKISTRODESMUS	52	1	110	2
...SCENEDESMACEAE				
....ACTINASTRUM	1700#	18	--	-
....CRUCIGENIA	--	-	430	7
....SCENEDESMUS	210	2	320	5
..VOLVOCALES				
...CHLAMYDOMONADACEAE				
....CHLAMYDOMONAS	--	-	110	2
CHRYSOPHYTA				
.BACILLARIOPHYCEAE				
..CENTRALES				
...COSCINODISCACEAE				
....CYCLOTELLA	--	-	700	12
....STEPHANODISCUS	210	2	--	-
..PENNALES				
...ACHNANTHACEAE				
....COCCONEIS	--	-	54	1
...FRAGILARIACEAE				
....SYNEDRA	100	1	--	-
...NAVICULACEAE				
....NAVICULA	3300#	36	860	15
...NITZSCHIACEAE				
....NITZSCHIA	2300#	26	480	8
CYANOPHYTA (BLUE-GREEN ALGAE)				
.CYANOPHYCEAE				
..CHROOCOCCALES				
...CHROOCOCCACEAE				
....ANACYSTIS	1100	13	--	-
EUGLENOPHYTA (EUGLENOIDS)				
.EUGLENOPHYCEAE				
..EUGLENALES				
...EUGLENACEAE				
....EUGLENA	52	1	--	-
PYRRHOPHYTA (FIRE ALGAE)				
.DINOPHYCEAE				
..GYMNODINIALES				
...GYMNODINIACEAE				
....GYMNODINIUM	--	-	54	1

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

GREEN RIVER BASIN
413200108344201 BITTER CREEK BELOW PATRICK DRAW, NEAR BITTER CREEK, WY--Continued
(LAT 41 32 00 LONG 108 34 42)

JUNE 26, 1978
1600 HOURS

PERIPHYTON IDENTIFICATION

	_ORGANISM__NAME_______________	_COMMON__NAME______
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..CHLOROCOCCALES	
	...OOCYSTACEAE	
	....ANKISTRODESMUS	
	...SCENEDESMACEAE	
	....ACTINASTRUM	
	..VOLVOCALES	
	...CHLAMYDOMONADACEAE	
	....CHLAMYDOMONAS	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...NAVICULACEAE	NAVICULOID
	....ENTOMONEIS	
	..CENTRALES	CENTRIC
	...COSCINODISCACEAE	
	....CYCLOTELLA	
	..PENNALES	PENNATE
	...FRAGILARIACEAE	
	....SYNEDRA	
	...NAVICULACEAE	NAVICULOID
	....CALONEIS	
&	....NAVICULA	
	...NITZSCHIACEAE	
&	....NITZSCHIA	
	...SURIRELLACEAE	
	....SURIRELLA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.CYANOPHYCEAE	
	..CHROCCOCCALES	COCCOID BLUE-GREENS
	...CHROCCOCCACEAE	
	....ANACYSTIS	
	..HORMOGONALES	FILAMENTOUS BL-GREEN
	...OSCILLATORIACEAE	
	....OSCILLATORIA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: GLASS CHAMBER(12MM CIRC), INVERTED MICROSCOPE

AUG. 5, 1978
1230 HOURS

PERIPHYTON IDENTIFICATION

	_ORGANISM__NAME_______________	_COMMON__NAME______
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..ZYGNEMATALES	
	...DESMIDIACEAE	PLACODERM DESMIDS
	....COSMARIUM	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..CENTRALES	CENTRIC
	...COSCINODISCACEAE	
	....CYCLOTELLA	
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
	....ACHNANTHES	
	...FRAGILARIACEAE	
	....SYNEDRA	
	...GOMPHONEMATACEAE	
	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
&	....GYROSIGMA	
&	....NAVICULA	
	....STAURONEIS	
	...NITZSCHIACEAE	
	....NITZSCHIA	
	...SURIRELLACEAE	
	....SURIRELLA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: SLIDE MOUNTING, INVERTED MICROSCOPE

413200108344201 BITTER CREEK BELOW PATRICK DRAW, NEAR BITTER CREEK, WY--Continued
(LAT 41 32 00 LONG 108 34 42)

BENTHIC INVERTEBRATE ANALYSES, OCTOBER 1977 TO AUGUST 1978

DATE	JUN 26,78	AUG 5,78
TIME	1600	1230
TOTAL COUNT	2	6
DIVERSITY: PHYLUM	0.0	0.0
.CLASS	0.0	0.7
..ORDER	1.0	1.9
...FAMILY	1.0	1.9
....GENUS	1.0	2.3
....GENUS-INSECTA	1.0	1.9

ORGANISM	COUNT	COUNT
ARTHROPOD(ARTHROPODS)		
.CRUSTACEA		
..AMPHIPODA		
...TALITRIDAE		
....HYALLELA		
.....H.AZTECA	--	1
.INSECTA		
..COLEOPTERA		
...ELMIDAE		
....OPTIOSERVUS	--	2
..DIPTERA		
...CHIRONOMIDAE		
....GLYPTOTENDIPES	--	1
....PROCLADIUS	--	1
..EPHEMEROPTERA		
...BAETIDAE		
....BAETIS	1	--
..HEMIPTERA		
...NAUCORIDAE		
....AMBRYSUS	1	1

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

411657109265701 SAGE CREEK BELOW SAGE CREEK RANCH, NEAR GREASEWOOD DRAW, WY (LAT 41 16 57 LONG 109 26 57)

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO
MAR 26...	1600	E2.0	10.0	2000	740	470	130	100	110	1.8

E-Estimate.

DATE	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)
MAR 26...	5.6	330	0	270	610	28	9.9	1160	1.58

DATE	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	IRON, DISSOLVED (UG/L AS FE)
MAR 26...	6.2	.18	7.4	6.3	1.1	6.1	.01	.03	20

DATE	TIME	TEMPERATURE (DEG C)	STREAM-FLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM
MAR 26...	1600	10.0	E2.0	4990	27	36	72	96	99	100

E-Estimate.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

09217900 BLACKS FORK NEAR ROBERTSON, WY (LAT 40 57 53 LONG 110 34 38)

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)
OCT 20...	1415	36	125	7.8	3.8	0	11.2	66	11	18	5.2

DATE	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
OCT 20...	1.3	.1	.5	68	0	56	7.2	.8	.1	4.6	73

DATE	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)
OCT 20...	.10	7.1	.27	.00	.00	.02	.05	.02	.00	.05

DATE	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	PHYTOPLANKTON, TOTAL (CELLS PER ML)	INVERTEBRATES, BENTHIC WET WT. (G/SQ METER)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)
OCT 20...	.01	.01	.01	.03	120	1.3	.000	.000	16	1.7

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BORON, DISSOLVED (UG/L AS B)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)
OCT 20...	1415	0	0	0	9	0	0	0

DATE	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	ZINC, DISSOLVED (UG/L AS ZN)
OCT 20...	180	0	60	.0	0	0	0	10

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

09217900 BLACKS FORK NEAR ROBERTSON, WY (LAT 40 57 53 LONG 110 34 38)--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 20,77
TIME	1415
TOTAL CELLS/ML	120
DIVERSITY: DIVISION	0.6
.CLASS	0.6
..ORDER	0.6
...FAMILY	2.2
....GENUS	2.2

ORGANISM	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..ZYGNEMATALES		
...ZYGNEMATACEAE		
....MOUGEOTIA	18#	15
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...ACHNANTHACEAE		
....ACHNANTHES	9	8
...CYMBELLACEAE		
....CYMBELLA	36#	31
...NAVICULACEAE		
....NAVICULA	27#	23
...NITZSCHIACEAE		
....NITZSCHIA	27#	23

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

09217900 BLACKS FORK NEAR ROBERTSON, WY (LAT 40 57 53 LONG 110 34 38)--Continued

OCT. 20, 1977
1415 HOURS

IDENTIFICATION OF PERIPHYTON

ORGANISM NAME	COMMON NAME
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..CHLOROCOCCALES	
...OOCYSTACEAE	
....ANKISTRODESMUS	
..ULOTRICHALES	
...CHAETOPHORACEAE	
....STIGEOCLONIUM	
..ZYGNEMATALES	
...DESMIDIACEAE	PLACODERM DESMIDS
....CLOSTERIUM	
....COSMARIUM	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..CENTRALES	CENTRIC
...COSCINODISCACEAE	
....CYCLOTELLA	
..PENNALES	PENNATE
...ACHNANTHACEAE	
& ....ACHNANTHES	
....COCCONEIS	
...CYMBELLACEAE	
& ....CYMBELLA	
...DIATOMACEAE	
....DIATOMA	
...FRAGILARIACEAE	
& ....SYNEDRA	
...GOMPHONEMATACEAE	
....DIDYMOSPHENIA	
....GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
....NAVICULA	
....PINNULARIA	
....STAURONEIS	
...NITZSCHIACEAE	
....DENTICULA	
....NITZSCHIA	
...SURIRELLACEAE	
....SURIRELLA	
...TABELLARIACEAE	
....TABELLARIA	
CYANOPHYTA	BLUE-GREEN ALGAE
.CYANOPHYCEAE	
..CHROCCOCCALES	COCCOID BLUE-GREENS
...CHROCCOCCAEAE	
....AGMENELLUM	
EUGLENOPHYTA	EUGLENOIDS
.EUGLENOPHYCEAE	
..EUGLENALES	
...EUGLENACEAE	
....TRACHELOMONAS	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

09217900 BLACKS FORK NEAR ROBERTSON, WY (LAT 40 57 53 LONG 110 34 38)--Continued

BENTHIC INVERTEBRATE ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 20,77
TIME	1415
TOTAL COUNT	103
DIVERSITY: PHYLUM	0.0
.CLASS	0.3
..ORDER	1.9
...FAMILY	3.2
....GENUS	3.9
....GENUS-INSECTA	3.8

ORGANISM	COUNT
ARTHROPODA (ARTHROPODS)	
.INSECTA	
..COLEOPTERA	
...ELMIDAE	
....OPTIOSERVUS	1
..DIPTERA	
...CHIRONOMIDAE	
....CONCHAPELOPIA	3
....CORYNONEURA	1
....EUKIEFFERIELLA	1
....ORTHOCLADIUS	2
....PSEUDODIAMESA	4
....RHEOTANYTARSUS	8
....STEMPELLINA	3
...RHAGIONIDAE	
....ATHERIX	
.....A.VARIEGATA	2
..EPHEMEROPTERA	
...BAETIDAE	
....BAETIS	4
....PSEUDOCLOEON	19
...EPHEMERELLIDAE	
....EPHEMERELLA	16
...HEPTAGENIIDAE	
....CINYGMA	7
....UNKNOWN GENUS	1
...LEPTOPHLEBIIDAE	
....PARALEPTOPHLEBIA	7
..PLECOPTERA	
...CAPNIIDAE	
....CAPNIA	1
...CHLOROPERLIDAE	
....UNKNOWN GENUS	6
..TRICHOPTERA	
...BRACHYCENTRIDAE	
....BRACHYCENTRUS	5
...GLOSSOSOMATIDAE	
....GLOSSOSOMA	2
...HYDROPSYCHIDAE	
....ARCTOPSYCHE	4
...RHYACOPHILIDAE	
....RHYACOPHILA	1
.ARACHNIDA	
..HYDRACARINA	
...UNKNOWN FAMILY	
....UNKNOWN GENUS #3	5

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

411553110242001 BLACKS FORK AT MILLBURNE, WY (LAT 41 15 53 LONG 110 24 20)

DATE	TIME	TEMPERATURE (DEG C)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)
OCT 21...	1530	10.5	97	7	28	6.6	2.9	.1	.9	110	0
MAR 30...	1525	10.5	190	7	48	18	11	.3	2.0	220	4

DATE	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)
OCT 21...	90	6.4	2.6	.1	5.0	107	.15	.08	.01	.17	.14
MAR 30...	190	16	6.8	--	12	226	.31	.01	--	--	--

DATE	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)
OCT 21...	.44	.15	.00	.61	.03	.01	.00	.00	20	70	8
MAR 30...	--	.39	.00	.39	.01	--	.02	.06	--	80	--

412100110201701 BLACKS FORK NEAR URIE, WY (LAT 41 21 00 LONG 110 20 17)

DATE	TIME	TEMPERATURE (DEG C)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)
OCT 21...	1515	11.5	850	630	230	68	110	1.6	3.2	270	0
MAR 30...	1535	12.0	390	180	99	34	49	1.1	2.6	240	6

DATE	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)
OCT 21...	220	790	24	.6	13	1370	1.86	.01	.06	.02	.92
MAR 30...	210	240	20	--	12	581	.79	.01	--	--	--

DATE	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)
OCT 21...	.16	.98	.80	.18	.12	.00	.00	.00	200	30	30
MAR 30...	--	.42	.00	.42	.02	--	.01	.03	--	80	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

412327110120001 BLACKS FORK ABOVE HIGHWAY I-80, NEAR LYMAN, WY (LAT 41 23 27 LONG 110 12 00)

DATE	TIME	TEMPERATURE (DEG C)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)
OCT 21...	1505	14.0	220	18	53	22	370	11	4.3	250	0
MAR 27...	1120	8.5	180	0	54	12	88	2.8	4.0	240	2

DATE	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS [illegible]
OCT 21...	210	440	240	.7	9.6	1260	1.71	.01	.06	.03	.63
MAR 27...	200	89	58	--	11	437	.59	.11	--	--	--

DATE	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)
OCT 21...	.66	.69	.00	.69	.08	.00	.00	.00	520	20	0
MAR 27...	--	1.5	.98	.52	2.6	--	.00	.00	--	30	--

410642110263701 SMITHS FORK BELOW WEST FORK, NEAR ROBERTSON, WY (LAT 41 06 42 LONG 110 26 37)

DATE	TIME	TEMPERATURE (DEG C)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT 21...	1610	10.5	0	0	0	6.5	2.6	.04	.01	.05	.02

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

411156110250301 SMITHS FORK AT ROBERTSON, WY (LAT 41 11 56 LONG 110 25 03)

DATE	TIME	TEMPERATURE (DEG C)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)
OCT 21...	1605	11.0	200	25	60	12	21	.6	2.8	210	1

DATE	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)
OCT 21...	170	31	27	.2	16	275	.37	.09	.00	.00	.36

DATE	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHUSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)
OCT 21...	.12	.36	.24	.12	.03	.02	.01	.03	60	40	30

411636110185601 SMITHS FORK ABOVE MOUNTAIN VIEW, WY (LAT 41 16 36 LONG 110 18 56)

DATE	TIME	TEMPERATURE (DEG C)	HARDNESS (MG/L AS CACO3)	HARDNESS, NUNCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)
OCT 21...	1600	11.5	210	14	62	14	59	1.8	2.6	240	1

DATE	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)
OCT 21...	200	57	48	.2	11	375	.51	.29	.00	.00	.64

DATE	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)
OCT 21...	.02	.64	.62	.02	.12	.01	.04	.12	20	40	30

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING
WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
GREEN RIVER BASIN

411432110132501 LEAVITT CREEK NEAR MOUNTAIN VIEW, WY (LAT 41 14 32 LONG 110 13 25)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
MAR 30...	1545	E.60	785	8.5	17.0	700	190	0	48	16

E-Estimate.

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACU3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
MAR 30...	98	3.1	5.1	260	7	230	84	70	23	480

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	IRON, DIS-SOLVED (UG/L AS FE)
MAR 30...	.65	.78	.06	2.1	1.3	.78	2.2	.03	.09	20

DATE	TIME	TEMPER-ATURE (DEG C)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM
MAR 30...	1545	17.0	E.60	2330	3.8	70	87	92	99	100

E-Estimate.

411912110132401 SMITHS FORK NEAR TURTLE HILL, NEAR LYMAN, WY (LAT 41 19 12 LONG 110 13 24)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)
OCT 21...	1555	--	11.5	180	0	43	17	230	7.5	4.3	220	7
MAR 27...	1128	E7.0	7.0	200	0	57	15	75	2.3	3.9	250	1

E-Estimate.

DATE	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)
OCT 21...	190	240	170	.5	14	835	1.14	--	.02	.01	.00	.72
MAR 27...	210	85	55	--	10	425	.58	8.0	.04	--	--	--

DATE	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
OCT 21...	.52	.73	.21	.52	.11	.02	.01	.03	270	20	8
MAR 27...	--	.91	.57	.34	1.0	--	.00	.00	--	30	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

412114110120001 COTTONWOOD CREEK AT MOUTH, NEAR LYMAN, WY (LAT 41 21 14 LONG 110 12 00)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO
MAR 27...	1124	E5.0	8.0	42	0	13	2.3	85	5.7

E - Estimate.

DATE	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)
MAR 27...	4.0	170	3	140	50	30	15	288	.39

DATE	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	IRON, DISSOLVED (UG/L AS FE)
MAR 27...	3.8	.37	5.1	4.5	.58	7.2	.01	.03	390

411724110134001 SMITHS FORK ABOVE SOUTH CREEK, NEAR LYMAN, WY (LAT 41 17 24 LONG 110 13 40)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO
MAR 27...	1137	E35	6.5	220	15	63	16	41	1.2

E - Estimate.

DATE	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)
MAR 27...	3.6	250	2	210	49	33	9.5	340	.46

DATE	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	IRON, DISSOLVED (UG/L AS FE)
MAR 27...	32	.02	.54	.05	.49	.07	.00	.00	50

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

411725110133201 SOUTH CREEK AT MOUTH, NEAR LYMAN, WY (LAT 41 17 25 LONG 110 13 32)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO
MAR 27...	1135	E15	6.5	230	14	67	15	100	2.9

E-Estimate.

DATE	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)
MAR 27...	3.4	260	1	220	110	80	11	516	.70

DATE	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	IRON, DISSOLVED (UG/L AS FE)
MAR 27...	20	.06	1.0	.43	.57	1.0	.00	.00	100

411548110362701 MUDDY CREEK NEAR PIEDMONT, WY (LAT 41 15 48 LONG 110 36 27)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)
MAR 28...	1200	29	650	8.7	6.0	20	300	24	74	28	21

DATE	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)
MAR 28...	.5	2.3	330	3	280	24	28	8.8	352	.48	27

DATE	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	IRON, DISSOLVED (UG/L AS FE)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
MAR 28...	.05	.68	.19	.49	.11	.05	.15	20	57	4.5	94

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

411747110374001 ANTELOPE CREEK AT MOUTH, NEAR LEROY, WY (LAT 41 17 47 LONG 110 37 40)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)
MAR 26...	1600	11	3600	8.6	13.5	500	930	400	110	160

DATE	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
MAR 26...	460	6.6	97	630	11	540	670	570	7.3	2400

DATE	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	IRON, DISSOLVED (UG/L AS FE)
MAR 26...	3.26	73	.04	3.2	.30	2.9	1.7	.01	.03	90

DATE	TIME	TEMPERATURE (DEG C)	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM
MAR 26...	1600	13.5	11	1270	39	56	80

DATE	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM
MAR 26...	90	93	95	97	98	100

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

411748110373801 MUDDY CREEK ABOVE SODA HOLLOW, NEAR LEROY, WY (LAT 41 17 48 LONG 110 37 38)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
MAR 26...	1545	32	640	8.3	9.0	35	300	24	72	28	34

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)
MAR 26...	.9	4.2	330	0	270	33	41	8.6	384	.52	33

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	IRON, DIS-SOLVED (UG/L AS FE)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
MAR 26...	.03	.58	.12	.46	.17	.00	.00	90	94	8.2	92

412522110295001 MUDDY CREEK ABOVE ROCK CREEK, NEAR CARTER, WY (LAT 41 25 22 LONG 110 29 50)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
MAR 28...	1220	35	1450	8.7	12.0	150	410	85	77	54	150

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)
MAR 28...	3.2	24	390	6	330	150	190	7.6	851	1.16	80

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	IRON, DIS-SOLVED (UG/L AS FE)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
MAR 28...	.03	1.3	.62	.68	.55	.00	.00	10	487	46	94

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

413827110423501 WARFIELD CREEK AT MOUTH, NEAR ELKOL, WY (LAT 41 38 27 LONG 110 42 35)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
MAR 28...	1540	1.1	660	8.7	13.5	900	210	90	39	27

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
MAR 28...	57	1.7	3.5	200	3	170	140	21	5.8	395

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	IRON, DIS-SOLVED (UG/L AS FE)
MAR 28...	.54	1.1	.05	3.1	2.4	.73	2.0	.02	.06	30

DATE	TIME	TEMPER-ATURE (DEG C)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM
MAR 28...	1540	13.5	1.1	1500	4.5	66	90	100

413740110423201 CARTER CREEK AT MOUTH, AT ELKOL, WY (LAT 41 37 40 LONG 110 42 32)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
MAR 28...	1525	E2.0	745	8.2	12.0	180	350	93	70	42	30

E-Estimate.

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)
MAR 28...	.7	3.8	310	0	250	110	24	7.1	440	.60	2.3

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	IRON, DIS-SOLVED (UG/L AS FE)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
MAR 28...	.10	1.5	.80	.70	.97	.01	.03	20	635	3.4	97

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

413648110422001 SHEEP CREEK AT MOUTH, NEAR ELKOL, WY (LAT 41 36 48 LONG 110 42 20)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
MAR										
28...	1505	E2.5	585	8.3	11.5	1100	280	60	50	38

E-Estimate.

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
MAR										
28...	18	.5	4.6	270	0	220	64	23	5.3	337

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	IRON, DIS-SOLVED (UG/L AS FE)
MAR										
28...	.46	2.2	.12	4.4	3.8	.63	3.6	.01	.03	20

DATE	TIME	TEMPER-ATURE (DEG C)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. FALL DIAM. % FINER THAN .500 MM
MAR											
28...	1505	11.5	E2.5	1490	10	58	87	95	95	98	100

E-Estimate.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

413355108391901 RYCKMAN CREEK AT MOUTH, NEAR ELKOL, WY (LAT 41 33 55 LONG 108 39 19)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
MAR 28...	1530	E1.4	920	8.6	10.0	400	370	61	56	57

E-Estimate.

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
MAR 28...	45	1.0	7.6	370	6	310	95	56	6.7	514

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	IRON, DIS-SOLVED (UG/L AS FE)
MAR 28...	.70	1.9	.43	2.4	1.8	.59	1.5	.03	.09	30

DATE	TIME	TEMPER-ATURE (DEG C)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM
MAR 28...	1530	10.0	E1.4	2360	8.9	67	88	100

E-Estimate.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

413258110353301 ALBERT CREEK BELOW WHITNEY CREEK, NEAR CUMBERLAND GAP, WY (LAT 41 32 58 LONG 110 35 33)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
MAR 28...	1555	E6.0	645	8.3	8.0	80	250	58	41	37	41

E-Estimate.

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)
MAR 28...	1.1	10	240	0	200	87	41	6.8	383	.52	6.2

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	IRON, DIS-SOLVED (UG/L AS FE)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
MAR 28...	.03	.85	.01	.84	.35	.07	.21	100	147	2.4	99

413459110340401 LITTLE MUDDY CREEK ABOVE NORTH FORK, NEAR GLENCO, WY (LAT 41 34 59 LONG 110 34 04)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO
MAR 27...	1400	20	720	8.5	10.0	330	100	51	48	49	1.2

DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)
MAR 27...	7.4	270	1	220	140	41	6.4	478	.65	25	.19

DATE	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	IRON, DIS-SOLVED (UG/L AS FE)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
MAR 27...	2.2	1.6	.60	1.5	.04	.12	30	969	52	99

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

414332110335001 NORTH FORK LITTLE MUDDY CREEK TRIBUTARY NUMBER 1 NEAR ELKOL, WY (LAT 41 43 32 LONG 110 33 50)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO
MAR 27...	1805	7.5	1450	8.2	7.5	820	700	210	71	74	1.1

DATE	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)
MAR 27...	6.5	140	0	110	800	25	4.0	1260	1.71	25	.33

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	IRON, DISSOLVED (UG/L AS FE)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
MAR 27...	.70	.39	.31	.10	.00	.00	20	55	1.1	95

414333110334501 NORTH FORK LITTLE MUDDY CREEK TRIBUTARY NUMBER 2 NEAR ELKOL, WY (LAT 41 43 33 LONG 110 33 45)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO
MAR 27...	1800	1.7	555	8.3	12.0	220	110	56	19	38	1.1

DATE	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)
MAR 27...	7.2	130	0	110	170	13	5.7	374	.51	1.7	.25

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	IRON, DISSOLVED (UG/L AS FE)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
MAR 27...	.81	.24	.57	.40	.09	.28	30	186	.85	99

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

413513110340001 NORTH FORK LITTLE MUDDY CREEK AT MOUTH, NEAR GLENCO, WY (LAT 41 35 13 LONG 110 34 00)

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO
MAR 27...	1455	12	1350	8.5	14.0	710	580	180	63	78	1.3

DATE	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)
MAR 27...	7.0	150	1	120	680	30	3.9	1120	1.52	36	.25

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	IRON, DISSOLVED (UG/L AS FE)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
MAR 27...	.93	.20	.73	.40	.01	.03	20	335	11	98

414109110331301 NORTH FORK LITTLE MUDDY CREEK TRIBUTARY AT BLAZON GAP, WY (LAT 41 41 09 LONG 110 33 13)

DATE	TIME	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)
MAR 27...	1800	550	8.4	12.5	1500	48	0	15	2.6	49

DATE	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
MAR 27...	3.1	3.4	100	0	82	65	7.6	5.6	199

DATE	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	IRON, DISSOLVED (UG/L AS FE)
MAR 27...	.27	.26	4.0	3.0	1.0	2.8	.05	.15	130

DATE	TIME	TEMPERATURE (DEG C)	SEDIMENT, SUSPENDED (MG/L)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM
MAR 27...	1800	12.5	7920	42	50	53	55	60	80	96	100

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

414127110332301 NORTH FORK LITTLE MUDDY CREEK AT BLAZON JUNCTION, WY (LAT 41 41 27 LONG 110 33 23)

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)
MAR										
27...	1800	1350	8.5	12.5	25	660	540	170	58	63

DATE	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)
MAR										
27...	1.1	6.9	140	6	120	610	24	3.0	1010	1.37

DATE	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	IRON, DISSOLVED (UG/L AS FE)	SEDIMENT, SUSPENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
MAR										
27...	.17	.73	.16	.57	.14	.01	.03	20	115	78

413316110162401 LITTLE MUDDY CREEK NEAR MOUTH, NEAR HAMPTON, WY (LAT 41 33 16 LONG 110 16 24)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)
MAR										
28...	1350	E29	1100	8.3	10.0	550	450	270	92	53

E-Estimate.

DATE	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
MAR										
28...	71	1.5	6.7	220	0	180	340	50	5.6	728

DATE	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	IRON, DISSOLVED (UG/L AS FE)
MAR										
28...	.99	57	.18	2.8	2.3	.50	1.9	.02	.06	20

DATE	TIME	TEMPERATURE (DEG C)	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. FALL DIAM. % FINER THAN .500 MM	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM
MAR												
28...	1350	10.0	E29	4370	342	58	71	86	94	98	99	100

E-Estimate.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

413228110181201 MUDDY CREEK AT HAMPTON, WY (LAT 41 32 28 LONG 110 18 12)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)
MAR 28...	1300	31	1550	8.7	11.0	300	410	89	70	57	170

DATE	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)
MAR 28...	3.7	27	380	5	320	170	240	7.7	935	1.27	79

DATE	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	IRON, DISSOLVED (UG/L AS FE)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
MAR 28...	.15	2.7	2.0	.70	1.2	.00	.00	10	1010	85	91

413300107112001 BLACKS FORK BELOW MUDDY CREEK, NEAR LITTLE AMERICA, WY (LAT 41 33 00 LONG 107 11 20)

DATE	TIME	TEMPERATURE (DEG C)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)
OCT 21...	1450	13.5	970	810	240	89	360	5.0	5.2	180	2
MAR 27...	1030	6.0	390	180	95	37	130	2.9	8.8	260	0

DATE	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)
OCT 21...	150	1400	100	1.0	5.5	2290	3.11	.01	.07	.02	.57
MAR 27...	210	310	87	--	9.1	806	1.10	.15	--	--	--

DATE	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)
OCT 21...	.64	.64	.00	.66	.06	.00	.00	.00	1800	20	30
MAR 27...	--	1.7	1.0	.66	1.4	--	.00	.00	--	20	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

413453110000001 BLACKS FORK ABOVE HAMS FORK, NEAR GRANGER, WY (LAT 41 34 53 LONG 110 00 00)

DATE	TIME	TEMPERATURE (DEG C)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)
OCT 21...	1445	13.5	990	850	230	100	360	5.0	6.2	170	1
MAR 27...	1021	6.5	390	190	97	36	120	2.6	7.6	250	0

DATE	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)
OCT 21...	140	1400	100	.9	5.9	2290	3.11	.03	.03	.00	.79
MAR 27...	210	310	77	--	8.8	780	1.06	.14	--	--	--

DATE	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)
OCT 21...	.50	.82	.32	.50	.05	.00	.02	.06	1700	20	20
MAR 27...	--	1.7	.88	.82	1.2	--	.00	.00	--	20	--

415016110315501 WILLOW CREEK AT MOUTH, NEAR FRONTIER, WY (LAT 41 50 16 LONG 110 31 55)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)
MAR 26...	1330	10	505	8.1	2.0	50	160	22	46	10	52

DATE	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)
MAR 26...	1.8	3.8	170	0	140	110	23	5.5	338	.46	9.3

DATE	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	IRON, DISSOLVED (UG/L AS FE)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
MAR 26...	.40	.63	.07	.56	.31	.04	.12	80	87	2.4	97

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

413607109593301 HAMS FORK NEAR MOUTH, NEAR GRANGER, WY (LAT 41 36 07 LONG 109 59 33)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO
MAR									
27...	1019	E80	5.5	240	97	65	18	38	1.1

E-Estimate.

DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)
MAR									
27...	2.7	170	0	140	140	23	3.1	374	.51

DATE	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	IRON, DIS-SOLVED (UG/L AS FE)
MAR									
27...	80	.13	.87	.59	.28	.41	.01	.03	20

413815109492301 BLACKS FORK ABOVE WESTVACO, NEAR LITTLE AMERICA, WY (LAT 41 38 15 LONG 109 49 23)

DATE	TIME	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)
OCT											
21...	1435	11.5	1000	870	240	97	390	5.4	6.0	160	1
MAR											
27...	1011	6.0	340	150	86	30	110	2.6	5.6	230	0

DATE	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)
OCT											
21...	130	1500	110	.9	5.5	2430	3.30	.07	.07	.18	.67
MAR											
27...	190	260	75	--	7.8	689	.94	.16	--	--	--

DATE	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
OCT											
21...	1.0	.74	.00	1.2	.20	.01	.00	.00	1500	20	20
MAR											
27...	--	2.8	2.3	.52	1.4	--	.01	.03	--	20	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

412820109400001 BLACKS FORK BELOW CHICKEN DRAW, NEAR GREEN RIVER, WY (LAT 41 28 20 LONG 109 40 00)

DATE	TIME	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)
OCT											
21...	1420	11.5	810	670	190	82	420	6.4	5.9	170	3
MAR											
27...	1000	5.5	340	160	88	29	130	3.1	5.1	220	0

DATE	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)
OCT											
21...	140	1300	130	.7	4.6	2220	3.02	.01	.11	.04	.78
MAR											
27...	180	310	73	--	8.2	753	1.02	.21	--	--	--

DATE	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
OCT											
21...	.75	.89	.10	.79	.05	.00	.01	.03	770	20	60
MAR											
27...	--	2.2	1.3	.87	1.9	--	.00	.00	--	30	--

09224810 BLACKS FORK TRIBUTARY NUMBER 2 NEAR GREEN RIVER, WY (LAT 41 27 35 LONG 109 37 20)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
AUG						
14...	1800	33	380	22.0	131300	11700

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

412235109363001 BLACKS FORK AT BLACKS FORK BRIDGE, NEAR GREEN RIVER, WY (LAT 41 22 35 LONG 109 36 30)

DATE	TIME	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)
OCT											
21...	1415	12.0	510	380	120	50	320	6.2	5.0	150	0
MAR											
27...	0945	5.5	320	140	82	27	130	3.2	5.0	220	0

DATE	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)
OCT											
21...	120	880	120	.6	4.6	1580	2.15	.09	.10	.12	.90
MAR											
27...	180	310	74	--	8.1	746	1.01	.25	--	--	--

DATE	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,NH4 + ORG. SUSP. TUTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ONGANIC DIS. (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
OCT											
21...	.85	1.0	.03	.97	.50	.01	.01	.03	680	20	40
MAR											
27...	--	2.3	1.7	.57	2.5	--	.00	.00	--	20	--

412020109344501 BLACKS FORK NEAR FLAMING GORGE RESERVOIR, WY (LAT 41 20 20 LONG 109 34 45)

DATE	TIME	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NUNCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)
OCT											
21...	1415	13.5	500	370	110	54	290	5.7	6.6	160	0

DATE	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)
OCT											
21...	130	830	130	.6	4.7	1520	2.07	2.5	.14	.44	3.7

DATE	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
OCT											
21...	2.2	3.8	1.2	2.6	9.5	.02	.00	.00	660	1500	120

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

09224980 SUMMERS DRY CREEK NEAR GREEN RIVER, WY (LAT 41 22 25 LONG 109 38 40)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	HARD-NESS (MG/L AS CACU3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
OCT 12...	1000	.01	910	3.0	120	--	--	--	--	--
MAR 27...	0950	E6.0	--	6.5	--	38	0	13	1.4	100
MAY 09...	0915	94	380	5.0	4000	--	--	--	--	--
JUN 09...	0915	.34	775	13.0	550	--	--	--	--	--
AUG 18...	1210	.21	540	17.0	3800	--	--	--	--	--

E-Estimate.

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SULIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)
OCT 12...	--	--	--	--	--	--	--	--	--	--
MAR 27...	7.0	1.8	180	0	150	69	30	11	318	.43
MAY 09...	--	--	--	--	--	--	--	--	--	--
JUN 09...	--	--	--	--	--	--	--	--	--	--
AUG 18...	--	--	--	--	--	--	--	--	--	--

DATE	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	IRON, DIS-SOLVED (UG/L AS FE)
OCT 12...	--	--	--	--	--	--	--	--	--
MAR 27...	5.1	.67	1.9	.50	1.4	3.3	.02	.06	190
MAY 09...	--	--	--	--	--	--	--	--	--
JUN 09...	--	--	--	--	--	--	--	--	--
AUG 18...	--	--	--	--	--	--	--	--	--

DATE	TIME	TEMPER-ATURE (DEG C)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM
OCT 12...	1000	3.0	.01	305	.01	--	--	--	--	--
MAR 27...	0950	6.5	E6.0	5070	--	78	79	100	--	--
APR 27...	1800	--	400	31500	34000	--	--	--	--	--
MAY 09...	0915	5.0	94	13100	3330	71	86	94	97	100
JUN 09...	0915	13.0	.34	2590	2.4	--	--	--	--	--
AUG 18...	1210	17.0	.21	10300	5.8	98	98	100	--	--

E-Estimate.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

411510109373001 BUCKBOARD WASH AT MOUTH, AT FLAMING GORGE RESERVOIR, WY (LAT 41 15 10 LONG 109 37 30)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
MAR 26...	1610	E.80	10.0	2000	10	0	2.3	1.0	120

E-Estimate.

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
MAR 26...	17	5.4	280	1	230	52	21	18	366

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	IRON, DIS-SOLVED (UG/L AS FE)
MAR 26...	.50	1.3	.00	.00	18	5.5	.07	.21	1100

DATE	TIME	TEMPER-ATURE (DEG C)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM
MAR 26...	1610	10.0	E.80	5530	12	97	100

E-Estimate.

411040109344001 SQUAW HOLLOW NEAR MOUTH, AT FLAMING GORGE RESERVOIR, WY (LAT 41 10 40 LONG 109 34 40)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO
MAR 26...	1620	E.30	16.0	1500	12	0	3.2	.9	130	17

E-Estimate.

DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)
MAR 26...	5.0	290	2	240	63	13	20	386	.53

DATE	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	IRON, DIS-SOLVED (UG/L AS FE)
MAR 26...	.31	1.2	2.8	2.1	.74	5.3	.04	.12	590

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

411040109344001 SQUAW HOLLOW NEAR MOUTH, AT FLAMING GORGE RESERVOIR, WY--Continued
(LAT 41 10 40 LONG 109 34 40)

DATE	TIME	TEMPER-ATURE (DEG C)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM
MAR 26...	1620	16.0	E.30	3920	3.2	94	97	100

E-Estimate.

09225220 UPPER MARSH CREEK AT MOUTH, NEAR ROCK SPRINGS, WY (LAT 41 09 25 LONG 109 30 13)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
MAR 30...	1145	E.60	1600	8.4	16.0	100	620	270	95	92

E-Estimate.

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
MAR 30...	160	2.8	1.8	420	0	340	550	16	20	1140

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	IRON, DIS-SOLVED (UG/L AS FE)
MAR 30...	1.55	1.8	.17	.74	.38	.36	.00	.01	.03	20

410915109310001 WASHAM WASH AT MOUTH, AT FLAMING GORGE RESERVOIR, WY (LAT 41 09 15 LONG 109 31 00)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)
MAR 26...	1630	E.40	10.0	150	640	310	99	96	170	2.9	2.0

E-Estimate.

DATE	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)
MAR 26...	410	0	340	590	22	18	1200	1.63	1.3	.15

DATE	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	IRON, DIS-SOLVED (UG/L AS FE)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
MAR 26...	.92	.62	.30	.81	.00	.00	20	636	.69	94

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

09226000 HENRYS FORK NEAR LONETREE, WY (LAT 41 00 23 LONG 110 16 13)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)
OCT											
21...	0956	13	182	8.2	2.5	1	9.6	56	1	16	4.0

DATE	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 105 DEG. C, DISSOLVED (MG/L)
OCT											
21...	2.2	.1	.6	67	0	55	2.9	1.5	.1	5.8	68

DATE	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)
OCT											
21...	67	.09	2.4	2	.06	.09	.01	.06	.06	.15	.08

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	PHYTOPLANKTON, TOTAL (CELLS PER ML)	INVERTEBRATES, BENTHIC WET WT. (G/SQ METER)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)
OCT											
21...	.07	.01	.00	.00	.00	99	3.6	.011	.004	5	.18

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BORON, DISSOLVED (UG/L AS B)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)
OCT								
21...	0956	20	0	0	10	0	0	1

DATE	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	ZINC, DISSOLVED (UG/L AS ZN)
OCT								
21...	100	0	8	.0	0	0	0	0

GREEN RIVER BASIN

09226000 HENRYS FORK NEAR LONETREE, WY (LAT 41 00 23 LONG 110 16 13)--Continued

DATE	TIME	GROSS ALPHA, DIS-SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L)	URANIUM DIS-SOLVED, EXTRAC-TION (UG/L)
OCT									
21...	0956	<.9	<.4	2.1	.4	1.7	.4	.11	.40

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 21,77
TIME	0956
TOTAL CELLS/ML	99
DIVERSITY: DIVISION	0.9
.CLASS	0.9
..ORDER	0.9
...FAMILY	2.5
....GENUS	2.5

ORGANISM	CELLS /ML	PER-CENT
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...ACHNANTHACEAE		
....ACHNANTHES	7	7
...CYMBELLACEAE		
....CYMBELLA	20#	20
...FRAGILARIACEAE		
....SYNEDRA	7	7
...GOMPHONEMATACEAE		
....GOMPHONEMA	7	7
...NAVICULACEAE		
....NAVICULA	13	13
...NITZSCHIACEAE		
....NITZSCHIA	13	13
CYANOPHYTA (BLUE-GREEN ALGAE)		
.CYANOPHYCEAE		
..HORMOGONALES		
...OSCILLATORIACEAE		
....OSCILLATORIA	33#	33

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

09226000 HENRYS FORK NEAR LONETREE, WY (LAT 41 00 23 LONG 110 16 13)--Continued

OCT. 21, 1977
0956 HOURS

IDENTIFICATION OF PERIPHYTON

_ORGANISM__NAME	_COMMON__NAME
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..ULOTRICHALES	
...MICROSPORACEAE	
& ....MICROSPORA	
..ZYGNEMATALES	
...DESMIDIACEAE	PLACODERM DESMIDS
....STAURASTRUM	
...ZYGNEMATACEAE	
....SPRIOGYRA	
....ZYGNEMA	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...CYMBELLACEAE	
....CYMBELLA	
...FRAGILARIACEAE	
....FRAGILARIA	
& ....SYNEDRA	
...GOMPHONEMATACEAE	
....GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
....NAVICULA	
...NITZSCHIACEAE	
& ....NITZSCHIA	
...SURIRELLACEAE	
....SURIRELLA	
CYANOPHYTA	BLUE-GREEN ALGAE
.CYANOPHYCEAE	
..HORMOGONALES	FILAMENTOUS BL-GREEN
...NOSTOCACEAE	
....ANABAENA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

09226000 HENRYS FORK NEAR LONETREE, WY (LAT 41 00 23 LONG 110 16 13)--Continued

BENTHIC INVERTEBRATE ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 21,77
TIME	0956
TOTAL COUNT	120
DIVERSITY: PHYLUM	0.0
.CLASS	0.2
..ORDER	1.8
...FAMILY	3.1
....GENUS	3.4
....GENUS-INSECTA	3.3

ORGANISM	COUNT
ARTHROPODA (ARTHROPODS)	
.INSECTA	
..DIPTERA	
...BLEPHAROCERIDAE	
....BIBIOCEPHALA	2
...CHIRONOMIDAE	
....CONCHAPELOPIA	2
....ORTHOCLADIUS	19
....STEMPELLINA	1
....TANYTARSUS	2
...PSYCHODIDAE	
....PERICOMA	3
...TIPULIDAE	
....DICRANOTA	2
....HEXATOMA	3
..EPHEMEROPTERA	
...EPHEMERELLIDAE	
....EPHEMERELLA	8
...HEPTAGENIIDAE	
....CINYGMULA	6
....RHITHROGENA	3
...LEPTOPHLEBIIDAE	
....PARALEPTOPHLEBIA	1
..PLECOPTERA	
...CHLOROPERLIDAE	
....UNKNOWN GENUS	3
..TRICHOPTERA	
...BRACHYCENTRIDAE	
....BRACHYCENTRUS	1
...GLOSSOSOMATIDAE	
....GLOSSOSOMA	2
...HYDROPSYCHIDAE	
....ARCTOPSYCHE	3
...LEPIDOSTOMATIDAE	
....LEPIDOSTOMA	42
...LIMNEPHILIDAE	
....OLIGOPHLEBODES	8
...RHYACOPHILIDAE	
....RHYACOPHILA	1
..PLECOPTERA	
...PERLODIDAE	
....ARCYNOPTERYX	3
.ARACHNIDA	
..HYDRACARINA	
...UNKNOWN FAMILY	
....UNKNOWN GENUS #3	5

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

410226110140001 HENRYS FORK BELOW LOUSE CREEK, NEAR LONETREE, WY (LAT 41 02 26 LONG 110 14 00)

DATE	TIME	TEMPERATURE (DEG C)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)
OCT 21...	1748	8.5	75	0	21	5.4	3.5	.2	.8	90	1
MAR 30...	1255	2.0	100	6	28	8.4	4.8	.2	1.1	120	0

DATE	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)
OCT 21...	75	7.5	3.8	.1	6.2	94	.13	.07	.00	.05	.29
MAR 30...	98	8.5	5.1	--	6.6	122	.17	.04	--	--	--

DATE	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)
OCT 21...	.41	.29	.00	.46	.02	.00	.01	.03	30	160	10
MAR 30...	--	.20	.00	.20	.00	--	.00	.00	--	80	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

09227000 EAST FORK BEAVER CREEK NEAR LONETREE, WY (LAT 40 56 40 LONG 110 09 40)

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)
OCT											
21...	1140	320	7.6	3.5	0	9.7	120	21	33	9.1	5.5

DATE	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 105 DEG. C, DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
OCT											
21...	.2	1.2	120	0	98	36	2.4	.1	11	140	159

DATE	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT											
21...	.22	1	.28	.09	.02	.29	.03	.38	.33	.05	.03

DATE	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)	PHYTOPLANKTON, TOTAL (CELLS PER ML)	INVERTEBRATES, BENTHIC WET WT. (G/SQ METER)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L)	SEDIMENT, SUSPENDED (MG/L)
OCT											
21...	.00	.00	.00	20	50	8	0	2.4	.067	.015	4

DATE	TIME	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DISSOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DISSOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DISSOLVED, RADON METHOD (PCI/L)	URANIUM DISSOLVED, EXTRACTION (UG/L)
OCT									
21...	1140	2.8	<.4	1.5	<.4	1.2	<.4	.10	.35

GREEN RIVER BASIN

09227000 EAST FORK BEAVER CREEK NEAR LONETREE, WY (LAT 40 56 40 LONG 110 09 40)--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 21,77
TIME	1140
TOTAL CELLS/ML	0
DIVERSITY: DIVISION	0.0
.CLASS	0.0
..ORDER	0.0
...FAMILY	0.0
....GENUS	0.0

ORGANISM	CELLS /ML	PER-CENT

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

OCT. 21, 1977
1140 HOURS

IDENTIFICATION OF PERIPHYTON

	ORGANISM NAME	COMMON NAME
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..ULOTRICHALES	
	...MICROSPORACEAE	
&	....MICROSPORA	
	...ULOTRICHACEAE	
	....BINUCLEARIA	
	..ZYGNEMATALES	
	...DESMIDIACEAE	PLACODERM DESMIDS
	....CLOSTERIUM	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..CENTRALES	CENTRIC
	...COSCINODISCACEAE	
	....MELOSIRA	
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
&	....ACHNANTHES	
	....RHOICOSPHENIA	
	...CYMBELLACEAE	
	....CYMBELLA	
	...DIATOMACEAE	
&	....DIATOMA	
	...GOMPHONEMATACEAE	
	....GOMPHONEMA	
	...MERIDIONACEAE	
&	....MERIDION	
	...NAVICULACEAE	NAVICULOID
	....FRUSTULIA	
&	....NAVICULA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.CYANOPHYCEAE	
	..HORMOGONALES	FILAMENTOUS BL-GREEN
	...OSCILLATORIACEAE	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

09227000 EAST FORK BEAVER CREEK NEAR LONETREE, WY (LAT 40 56 40 LONG 110 09 40)--Continued

BENTHIC INVERTEBRATE ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 21,77
TIME	1140
TOTAL COUNT	175
DIVERSITY: PHYLUM	0.0
.CLASS	0.0
..ORDER	2.0
...FAMILY	2.9
....GENUS	3.5
....GENUS-INSECTA	3.5

ORGANISM	COUNT
ARTHROPODA (ARTHROPODS)	
.INSECTA	
..COLEOPTERA	
...ELMIDAE	
....HETERELMIS	11
..DIPTERA	
...CHIRONOMIDAE	
....EUKIEFFERIELLA	24
....ORTHOCLADIUS	28
....POLYPEDILUM	2
....STEMPELLINA	1
....TANYTARSUS	1
...MUSCIDAE	
....LIMNOPHORA	4
...TIPULIDAE	
....DICRANOTA	1
....TIPULA	1
..EPHEMEROPTERA	
...BAETIDAE	
....PSEUDOCLOEON	5
...EPHEMERELLIDAE	
....EPHEMERELLA	16
...HEPTAGENIIDAE	
....RHITHROGENA	36
..PLECOPTERA	
...PERLODIDAE	
....ISOPERLA	3
...PTERONARCIDAE	
....PTERONARCELLA	15
..TRICHOPTERA	
...GLOSSOSOMATIDAE	
....GLOSSOSOMA	5
...LIMNEPHILIDAE	
....OLIGOPHLEBODES	9
..PLECOPTERA	
...PERLODIDAE	
....ARCYNOPTERYX	10
..DIPTERA	
...CHIRONOMIDAE	
....UNKNOWN GENUS #5	3

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

410430110074701 HENRYS FORK TRIBUTARY NEAR LONETREE, WY (LAT 41 04 30 LONG 110 07 47)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO
MAR 30...	1305	E1.5	18.0	33	0	11	1.4	79	6.0

E-Estimate.

DATE	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)
MAR 30...	6.8	120	2	100	79	20	24	283	.38

DATE	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	IRON, DISSOLVED (UG/L AS FE)
MAR 30...	1.1	.11	2.4	1.6	.82	5.0	.04	.12	20

410318110054301 HENRYS FORK BELOW BEAVER CREEK, NEAR LONETREE, WY (LAT 41 03 18 LONG 110 05 43)

DATE	TIME	TEMPERATURE (DEG C)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)
OCT 21...	1741	9.5	290	0	67	29	25	.6	5.6	340	5
MAR 30...	1310	8.0	230	10	53	23	19	.5	4.7	260	2

DATE	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)
OCT 21...	290	40	11	.2	20	371	.50	.01	.00	.01	.30
MAR 30...	220	32	9.3	--	15	286	.39	.02	--	--	--

DATE	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)
OCT 21...	.22	.30	.07	.23	.03	.00	.03	.09	110	60	10
MAR 30...	--	.91	.28	.63	.01	--	.01	.03	--	40	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

410225110000101 HENRYS FORK BELOW BURNT FORK, AT BURNTFORK, WY (LAT 41 02 25 LONG 110 00 01)

DATE	TIME	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)
OCT 21...	1736	10.5	410	170	100	38	29	.6	9.4	290	0

DATE	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)
OCT 21...	240	200	14	.3	25	559	.76	.00	.00	.01	.43

DATE	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRU- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
OCT 21...	.16	.43	.26	.17	.16	.00	.00	.00	110	20	10

410317109523001 HENRYS FORK ABOVE LOGAN HOLLOW, NEAR MC KINNON, WY (LAT 41 03 17 LONG 109 52 30)

DATE	TIME	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)
OCT 21...	1733	9.5	700	450	160	74	56	.9	12	310	0
MAR 30...	1240	9.0	350	130	87	32	30	.7	6.8	260	4

DATE	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)
OCT 21...	250	520	21	.5	26	1020	1.39	.02	.01	.02	.66
MAR 30...	220	170	14	--	17	489	.67	.01	--	--	--

DATE	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
OCT 21...	.58	.67	.07	.60	.12	.00	.00	.00	200	30	60
MAR 30...	--	.79	.15	.64	.01	--	.01	.03	--	30	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

410317109472601 HENRYS FORK ABOVE ANTELOPE WASH, NEAR MC KINNON, WY (LAT 41 03 17 LONG 109 47 26)

DATE	TIME	TEMPERATURE (DEG C)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)
OCT 21...	1727	10.0	710	470	160	75	57	.9	11	290	0
MAR 30...	1225	9.5	390	170	95	36	27	.6	6.6	260	4

DATE	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)
OCT 21...	240	540	23	.5	25	1030	1.40	.01	.04	.02	.31
MAR 30...	220	190	11	--	15	513	.70	.01	--	--	--

DATE	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)
OCT 21...	.35	.35	.00	.37	.07	.00	.00	.00	210	20	50
MAR 30...	--	.65	.00	.65	.01	--	.01	.03	--	30	--

410325109461001 LITTLE DRY CREEK AT MOUTH, NEAR MANILA, UT (LAT 41 03 25 LONG 109 46 10)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO
MAR 30...	1230	E.50	15.0	13	0	3.8	.9	120	14

E-Estimate.

DATE	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)
MAR 30...	8.0	210	8	190	73	9.8	19	347	.47

DATE	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	IRON, DISSOLVED (UG/L AS FE)
MAR 30...	.47	.25	3.1	2.0	1.1	6.6	.04	.12	90

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

410120109415501 HENRYS FORK ABOVE COTTONWOOD CREEK, NEAR MANILA, UT (LAT 41 01 20 LONG 109 41 55)

DATE	TIME	TEMPERATURE (DEG C)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)
OCT 21...	1723	10.5	880	610	200	93	77	1.1	12	330	0

DATE	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)
OCT 21...	270	700	30	.5	22	1300	1.77	.05	.02	.03	.46

DATE	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)
OCT 21...	.28	.48	.17	.31	.04	.00	.00	.00	250	20	120

410000109393001 HENRYS FORK AT MOUTH, AT FLAMING GORGE RESERVOIR, WY (LAT 41 00 00 LONG 109 39 30)

DATE	TIME	TEMPERATURE (DEG C)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)
OCT 21...	1720	11.5	1100	780	240	110	94	1.3	12	330	0

DATE	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)
OCT 21...	270	930	39	.7	19	1610	2.19	.23	.07	.04	.57

DATE	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)
OCT 21...	.31	.64	.29	.35	.08	.00	.00	.00	360	30	120

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

410330109045301 RED CREEK NEAR RED CREEK RANCH, WY (LAT 41 03 30 LONG 109 04 53)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
MAR										
29...	1025	E1.5	780	8.8	6.0	300	270	32	41	41

E-Estimate.

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
MAR										
29...	57	1.5	4.1	280	6	240	140	21	11	459

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	IRON, DIS-SOLVED (UG/L AS FE)
MAR										
29...	.62	1.8	.00	.77	.33	.44	.14	.02	.06	30

DATE	TIME	TEMPER-ATURE (DEG C)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM
MAR								
29...	1025	6.0	E1.5	392	1.6	68	86	100

E-Estimate.

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

410114109130501 RED CREEK NEAR RICHARDS GAP, WY (LAT 41 01 14 LONG 109 13 05)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
MAR										
29...	1050	E2.5	1310	8.7	12.5	800	450	200	68	69

E-Estimate.

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
MAR										
29...	130	2.7	4.6	310	2	260	420	23	12	882

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	IRON, DIS-SOLVED (UG/L AS FE)
MAR										
29...	1.20	5.9	.01	1.8	1.2	.59	.71	.03	.09	20

DATE	TIME	TEMPER-ATURE (DEG C)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. FALL DIAM. % FINER THAN .500 MM
MAR											
29...	1050	12.5	E2.5	2910	20	42	60	74	84	98	100

E-Estimate.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

410130108384001 VERMILLION CREEK ABOVE ALKALI CREEK, NEAR HIAWATHA, CO (LAT 41 01 30 LONG 108 38 40)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)
MAR 30...	1040	2.9	1400	8.6	8.0	1400	480	140	96	59	160

DATE	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 105 DEG. C, DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
MAR 30...	3.2	4.6	410	4	340	420	21	11	1000	979

DATE	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)
MAR 30...	1.33	7.7	3900	.28	4.2	3.6	.59	2.3	.05	.15

DATE	TIME	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)
MAR 30...	1040	2500	13	800	2	50	70	53000

DATE	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	SELENIUM, TOTAL (UG/L AS SE)	SILVER, TOTAL RECOVERABLE (UG/L AS AG)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)
MAR 30...	40	43	2600	.0	4	5	0	110

DATE	TIME	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DISSOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DISSOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DISSOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DISSOLVED (UG/L AS U)
MAR 30...	1040	12	310	8.7	160	7.8	140	.10	12

DATE	TIME	TEMPERATURE (DEG C)	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. FALL DIAM. % FINER THAN .500 MM
MAR 30...	1040	8.0	2.9	15900	126	61	77	88	97	99	100

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

410130108382501 ALKALI CREEK AT MOUTH, NEAR HIAWATHA, CO (LAT 41 01 30 LONG 108 38 25)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO
MAR 30...	1015	.26	3520	8.2	9.5	200	1100	880	240	130	550	7.1

DATE	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 105 DEG. C, DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)
MAR 30...	4.1	310	0	250	1900	77	7.9	3400	3060	4.16	2.1

DATE	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
MAR 30...	300	.35	.74	.36	.38	.03	.04	.12	359	.25	99

DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)
MAR 30...	1015	2	100	1	10	9	5600	20

DATE	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	SELENIUM, TOTAL (UG/L AS SE)	SILVER, TOTAL RECOVERABLE (UG/L AS AG)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)
MAR 30...	62	190	.0	4	0	0	30

DATE	TIME	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DISSOLVED (PCI/L AS CS-137)	GRUSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DISSOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DISSOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DISSOLVED (UG/L AS U)
MAR 30...	1015	58	31	<7.2	19	<6.1	16	.20	19

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

410917108253301 SHELL CREEK ABOVE COW CREEK RESERVOIR, WY (LAT 41 09 17 LONG 108 25 33)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACU3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
MAR 21...	1020	E8.0	1200	8.2	5.0	200	10.4	82	0	17	9.5	230

E-Estimate.

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)
MAR 21...	11	1.7	300	10	260	300	14	8.5	739	1.01	16

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	IRON, DIS-SOLVED (UG/L AS FE)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
MAR 21...	.06	1.5	.77	.73	.69	.08	.25	70	571	12	90

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

405855106543500 WHISKEY CREEK ABOVE WHISKEY PARK, NEAR COLUMBINE, CO (LAT 40 58 55 LONG 106 54 35)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
OCT											
14...	1000	1.9	50	7.9	.0	1	11.6	22	1	6.3	1.6

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 105 DEG. C, DIS-SOLVED (MG/L)
OCT											
14...	2.3	.2	.6	26	0	21	1.6	.9	.1	12	41

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)
OCT										
14...	38	.05	.20	<1	.00	.05	.00	.03	.08	.08

DATE	NITRO-GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	PHYTO-PLANK-TON, TOTAL (CELLS PER ML)	IN-VERTE-BRATES, BENTHIC WET WT. (G/SQ METER)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
OCT										
14...	.00	.08	.00	.00	.00	.00	220	.1	3	.02

DATE	TIME	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, DIS-SOLVED (UG/L AS CU)
OCT								
14...	1000	20	0	0	10	3	10	0

DATE	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT								
14...	60	28	4	.0	0	0	0	10

DATE	TIME	GROSS ALPHA, DIS-SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RA-226, DIS-SOLVED, PLAN-CHET COUNT (PCI/L)	URANIUM DIS-SOLVED, EXTRAC-TION (UG/L)
OCT									
14...	1000	<.5	<.4	1.7	<.4	1.7	<.4	<.1	.40

GREEN RIVER BASIN

405855106543500 WHISKEY CREEK ABOVE WHISKEY PARK, NEAR COLUMBINE, CO--Continued
(LAT 40 58 55 LONG 106 54 35)

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 14,77
TIME	1000
TOTAL CELLS/ML	220
DIVERSITY: DIVISION	1.1
.CLASS	1.1
..ORDER	1.1
...FAMILY	1.9
....GENUS	1.9

ORGANISM	CELLS /ML	PER- CENT
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...ACHNANTHACEAE		
....COCCONEIS	28	13
...FRAGILARIACEAE		
....SYNEDRA	18	8
...NAVICULACEAE		
....NAVICULA	9	4
...NITZSCHIACEAE		
....NITZSCHIA	9	4
CRYPTOPHYTA (CRYPTOMONADS)		
.CRYPTOPHYCEAE		
..CRYPTOMONADALES		
...CRYPTO,ONADACEAE		
....CRYPTOMONAS	9	4
CYANOPHYTA (BLUE-GREEN ALGAE)		
.CYANOPHYCEAE		
..HORMOGONALES		
...OSCILLATORIACEAE		
....OSCILLATORIA	140#	63
...RIVULARIACEAE		
....RAPHIDIOPSIS	9	4

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

405855106543500 WHISKEY CREEK ABOVE WHISKEY PARK, NEAR COLUMBINE, CO--Continued
(LAT 40 58 55 LONG 106 54 35)

OCT. 14. 1977
1000 HOURS

PERIPHYTON IDENTIFICATION

	ORGANISM NAME	COMMON NAME
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..CHLOROCOCCALES	
	...CHARACIACEAE	
	....CHARACIUM	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
&	....COCCONEIS	
	...CYMBELLACEAE	
	....AMPHORA	
	....CYMBELLA	
&	....EPITHEMIA	
	....RHOPALODIA	
	...DIATOMACEAE	
	....DIATOMA	
	...EUNOTIACEAE	
	....EUNOTIA	
	...FRAGILARIACEAE	
	....HANNAEA	
	....SYNEDRA	
	...GOMPHONEMATACEAE	
	....GOMPHONEMA	
	...MERIDIONACEAE	
	....MERIDION	
	...NAVICULACEAE	NAVICULOID
	....CALONEIS	
	....DIPLONEIS	
	....FRUSTULIA	
&	....NAVICULA	
	....PINNULARIA	
	...NITZSCHIACEAE	
&	....NITZSCHIA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.CYANOPHYCEAE	
	..CHROCCOCCALES	COCCOID BLUE-GREENS
	...CHROCCOCCAEAE	
	....ANACYSTIS	
	..HORMOGONALES	FILAMENTOUS BL-GREEN
	...NOSTOCACEAE	
	....ANABAENA	
	...RIVULARIACEAE	
	....CALOTHRIX	

NOTE: & - ESTIMATED DOMINANT ORGANISM: NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING. INVERTED MICROSCOPE

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

405855106543500 WHISKEY CREEK ABOVE WHISKEY PARK, NEAR COLUMBINE, CO--Continued
(LAT 40 58 55 LONG 106 54 35)

BENTHIC INVERTEBRATE ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 14,77
TIME	1000
TOTAL COUNT	40
DIVERSITY: PHYLUM	0.0
.CLASS	0.4
..ORDER	2.3
...FAMILY	3.1
....GENUS	3.3
....GENUS-INSECTA	3.1

ORGANISM	COUNT
ARTHROPODA (ARTHROPODS)	
.INSECTA	
..COLEOPTERA	
...ELMIDAE	
....OPTIOSERVUS	5
..DIPTERA	
...CHIRONOMIDAE	
....CONCHAPELOPIA	2
....SPANIOTOMA	8
...TIPULIDAE	
....HEXATOMA	1
..EPHEMEROPTERA	
...BAETIDAE	
....BAETIS	6
...EPHEMERELLIDAE	
....EPHEMERELLA	5
...HEPTAGENIIDAE	
....RHITHROGENA	2
..TRICHOPTERA	
...HYDROPSYCHIDAE	
....ARCTOPSYCHE	1
...HYDROPTILIDAE	
....OXYETHIRA	1
...LEPIDOSTOMATIDAE	
....LEPIDOSTOMA	4
..PLECOPTERA	
...CHLOROPERLIDAE	
....ALLOPERLA	2
.ARACHNIDA	
..HYDRACARINA	
...UNKNOWN FAMILY	
....UNKNOWN GENUS #3	3

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

09251900 NORTH FORK LITTLE SNAKE RIVER NEAR SLATER, CO (LAT 41 00 55 LONG 107 01 20)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
OCT												
14...	0845	3.4	50	8.5	4.0	0	11.6	18	0	7.1	.0	2.1
MAR												
23...	1400	E250	188	7.9	2.5	2	10.5	67	0	20	4.1	7.9

E-Estimate.

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 105 DEG. C, DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
OCT											
14...	.2	.5	29	0	24	.6	.6	.1	11	35	36
MAR											
23...	.4	1.6	85	0	70	13	3.1	--	12	--	104

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)
OCT											
14...	.05	.33	23	.00	.01	.00	.09	.09	.10	.01	.09
MAR											
23...	.14	--	--	.10	--	--	--	--	.23	.00	.23

DATE	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	PHYTO-PLANK-TON, TOTAL (CELLS PER ML)	IN-VERTE-BRATES, BENTHIC WET WT. (G/SQ METER)	BIOMASS CHLORO-PHYLL RATIO PLANK-TON (UNITS)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
OCT											
14...	.00	.00	.02	.06	2800	2.2	--	--	--	18	.17
MAR											
23...	.04	--	.01	.03	--	--	2703	.740	.000	17	11

DATE	TIME	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, DIS-SOLVED (UG/L AS CU)
OCT								
14...	0845	10	0	0	6	0	20	0
MAR								
23...	1400	--	--	--	--	--	--	--

DATE	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT								
14...	40	3	8	.0	0	0	0	10
MAR								
23...	140	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

09251900 NORTH FORK LITTLE SNAKE RIVER NEAR SLATER, CO (LAT 41 00 55 LONG 107 01 20)--Continued

DATE	TIME	GROSS ALPHA, DIS-SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RA-226, DIS-SOLVED, PLAN-CHET COUNT (PCI/L)	URANIUM DIS-SOLVED, EXTRAC-TION (UG/L)
OCT									
14...	0845	<.4	.7	1.1	.9	1.1	.9	<.1	.04

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 14,77
TIME	0845
TOTAL CELLS/ML	2800
DIVERSITY: DIVISION	0.3
.CLASS	0.3
..ORDER	0.3
...FAMILY	0.8
....GENUS	0.8

ORGANISM	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..ZYGNEMATALES		
...ZYGNEMATACEAE		
....MOUGEOTIA	43	2
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...ACHNANTHACEAE		
....COCCONEIS	14	1
...CYMBELLACEAE		
....CYMBELLA	*	0
...NAVICULACEAE		
....FRUSTULIA	*	0
....NAVICULA	28	1
...NITZSCHIACEAE		
....NITZSCHIA	21	1
CYANOPHYTA (BLUE-GREEN ALGAE)		
.CYANOPHYCEAE		
..HORMOGONALES		
...NOSTOCACEAE		
....ANABAENA	230	8
...OSCILLATORIACEAE		
....OSCILLATORIA	2400#	87
...RIVULARIACEAE		
....RAPHIDIOPSIS	*	0

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

09251900 NORTH FORK LITTLE SNAKE RIVER NEAR SLATER, CO (LAT 41 00 55 LONG 107 01 20)--Continued

OCT. 14, 1977
0845 HOURS

PERIPHYTON IDENTIFICATION

	_ORGANISM__NAME_______________	_COMMON__NAME_______
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..ULOTRICHALES	
	...MICROSPORACEAE	
	....MICROSPORA	
	..ZYGNEMATALES	
	...DESMIDIACEAE	PLACODERM DESMIDS
	....CLOSTERIUM	
	...ZYGNEMATACEAE	
	....SPIROGYRA	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..CENTRALES	CENTRIC
	...COSCINODISCACEAE	
	....MELOSIRA	
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
	....COCCONEIS	
	...CYMBELLACEAE	
	....CYMBELLA	
	...FRAGILARIACEAE	
	....HANNAEA	
	....SYNEDRA	
	...GOMPHONEMATACEAE	
	....GOMPHONEIS	
	...NAVICULACEAE	NAVICULOID
	....NAVICULA	
	....PINNULARIA	
	...NITZSCHIACEAE	
	....NITZSCHIA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.CYANOPHYCEAE	
	..HORMOGONALES	FILAMENTOUS BL-GREEN
	...OSCILLATORIACEAE	
&	....OSCILLATORIA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

09251900 NORTH FORK LITTLE SNAKE RIVER NEAR SLATER, CO (LAT 41 00 55 LONG 107 01 20)--Continued

BENTHIC INVERTEBRATE ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 14,77
TIME	0845
TOTAL COUNT	187
DIVERSITY: PHYLUM	0.0
.CLASS	0.0
..ORDER	1.8
...FAMILY	3.6
....GENUS	4.2
....GENUS-INSECTA	4.2

ORGANISM	COUNT
ARTHROPO(ARTHROPODS	
.INSECTA	
..PLECOPTERA	
...NEMOURIDAE	
....NEMOURA	8
..COLEOPTERA	
...ELMIDAE	
....OPTIOSERVUS	2
....ZAITZEVIA	1
..DIPTERA	
...CERATOPOGONIDAE	
....UNKNOWN GENUS	1
...CHIRONOMIDAE	
....BRILLIA	1
....CONCHAPELOPIA	3
....EUKIEFFERIELLA	1
....PARACHIRONOMUS	6
....RHEOTANYTARSUS	7
....SPANIOTOMA	
.....SPANIOTOMA SP. G	4
...EMPIDIDAE	
....HEMERODROMIA	1
...PSYCHODIDAE	
....PERICOMA	3
...TIPULIDAE	
....HEXATOMA	2
..EPHEMEROPTERA	
...BAETIDAE	
....BAETIS	5
....PSEUDOCLOEON	20
...EPHEMERELLIDAE	
....EPHEMERELLA	31
...HEPTAGENIIDAE	
....RHITHROGENA	21
....UNKNOWN GENUS	12
...LEPTOPHLEBIIDAE	
....PARALEPTOPHLEBIA	8
..PLECOPTERA	
...CHLOROPERLIDAE	
....UNKNOWN GENUS	8
..TRICHOPTERA	
...BRACHYCENTRIDAE	
....BRACHYCENTRUS	1
....MICRASEMA	9
...GLOSSOSOMATIDAE	
....GLOSSOSOMA	6
...HYDROPSYCHIDAE	
....ARCTOPSYCHE	9
...LEPIDOSTOMATIDAE	
....LEPIDOSTOMA	9
...LIMNEPHILIDAE	
....OLIGOPHLEBODES	5
...RHYACOPHILIDAE	
....RHYACOPHILA	2
..DIPTERA	
...CHIRONOMIDAE	
....UNKNOWN GENUS #5	1

GREEN RIVER BASIN

410105107050501 ROARING FORK LITTLE SNAKE RIVER NEAR SLATER, CO (LAT 41 01 05 LONG 107 05 05)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)
OCT											
14...	1100	1.0	175	8.1	6.0	1	14.2	73	0	22	4.5

DATE	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 105 DEG. C, DISSOLVED (MG/L)
OCT											
14...	9.0	.5	1.3	110	0	90	3.0	1.4	.3	11	110

DATE	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)
OCT										
14...	107	.15	.29	<1	.01	.00	.01	.45	.17	.45

DATE	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	PHYTOPLANKTON, TOTAL (CELLS PER ML)	INVERTEBRATES, BENTHIC WET WT. (G/SQ METER)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)
OCT										
14...	.27	.18	.03	.01	.01	.03	390	1.6	9	.02

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BORON, DISSOLVED (UG/L AS B)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)
OCT								
14...	1100	10	1	0	30	5	5	0

DATE	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	ZINC, DISSOLVED (UG/L AS ZN)
OCT								
14...	230	20	8	.0	0	0	0	10

DATE	TIME	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DISSOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DISSOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RA-226, DISSOLVED, PLANCHET COUNT (PCI/L)	URANIUM NATURAL DISSOLVED (UG/L AS U)
OCT									
14...	1100	3.3	<.4	2.8	<.4	2.5	<.4	<.1	.6

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

410105107050501 ROARING FORK LITTLE SNAKE RIVER NEAR SLATER, CO (LAT 41 01 05 LONG 107 05 05)--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 14,77
TIME	1100
TOTAL CELLS/ML	390
DIVERSITY: DIVISION	1.6
.CLASS	1.6
..ORDER	1.8
...FAMILY	2.5
....GENUS	2.5

ORGANISM	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...OOCYSTACEAE		
....ANKISTRODESMUS	4	1
...SCENEDESMACEAE		
....CRUCIGENIA	100#	26
..ZYGNEMATALES		
...DESMIDIACEAE		
....CLOSTERIUM	4	1
...ZYGNEMATACEAE		
....MOUGEOTIA	11	3
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..CENTRALES		
...COSCINODISCACEAE		
....CYCLOTELLA	4	1
..PENNALES		
...CYMBELLACEAE		
....CYMBELLA	4	1
....RHOPALODIA	4	1
...FRAGILARIACEAE		
....SYNEDRA	4	1
...GOMPHONEMATACEAE		
....GOMPHONEMA	4	1
...NAVICULACEAE		
....NAVICULA	11	3
...NITZSCHIACEAE		
....NITZSCHIA	65#	17
CYANOPHYTA (BLUE-GREEN ALGAE)		
.CYANOPHYCEAE		
..HORMOGONALES		
...NOSTOCACEAE		
....APHANIZOMENON	23	6
...OSCILLATORIACEAE		
....SCHIZOTHRIX	150#	37
EUGLENOPHYTA (EUGLENOIDS)		
.EUGLENOPHYCEAE		
..EUGLENALES		
...EUGLENACEAE		
....PHACUS	4	1

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

410105107050501 ROARING FORK LITTLE SNAKE RIVER NEAR SLATER, CO (LAT 41 01 05 LONG 107 05 05)--Continued

OCT. 14, 1977
1100 HOURS

PERIPHYTON IDENTIFICATION

ORGANISM NAME	COMMON NAME
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..CHLOROCOCCALES	
...SCENEDESMACEAE	
....SCENEDESMUS	
..ZYGNEMATALES	
...DESMIDIACEAE	PLACODERM DESMIDS
....CLOSTERIUM	
....STAURASTRUM	
...ZYGNEMATACEAE	
& ....MOUGEOTIA	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..CENTRALES	CENTRIC
...COSCINODISCACEAE	
....MELOSIRA	
..PENNALES	PENNATE
...ACHNANTHACEAE	
....COCCONEIS	
...CYMBELLACEAE	
....AMPHORA	
....CYMBELLA	
....RHOPALODIA	
...FRAGILARIACEAE	
& ....SYNEDRA	
...GOMPHONEMATACEAE	
....GOMPHONEIS	
& ....GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
& ....NAVICULA	
...NITZSCHIACEAE	
& ....NITZSCHIA	
CYANOPHYTA	BLUE-GREEN ALGAE
.CYANOPHYCEAE	
..CHROOCOCCALES	COCCOID BLUE-GREENS
...CHROOCOCCACEAE	
....AGMENELLUM	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

410105107050501 ROARING FORK LITTLE SNAKE RIVER NEAR SLATER, CO (LAT 41 01 05 LONG 107 05 05)--Continued

BENTHIC INVERTEBRATE ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 14,77
TIME	1100
TOTAL COUNT	35
DIVERSITY: PHYLUM	0.5
.CLASS	0.8
..ORDER	2.1
...FAMILY	2.9
....GENUS	2.9
....GENUS-INSECTA	2.4

ORGANISM	COUNT
ANNELIDA	
.OLIGOCHAETA	
..UNKNOWN ORDER	
...UNKNOWN FAMILY	
....UNKNOWN GENUS #5	2
ARTHROPODA (ARTHROPODS)	
.INSECTA	
..DIPTERA	
...CHIRONOMIDAE	
....SPANIOTOMA	2
...SIMULIIDAE	
....SIMULIUM	1
..EPHEMEROPTERA	
...EPHEMERELLIDAE	
....EPHEMERELLA	1
..PLECOPTERA	
...PTERONARCIDAE	
....PTERONARCELLA	8
..TRICHOPTERA	
...BRACHYCENTRIDAE	
....BRACHYCENTRUS	1
...LEPIDOSTOMATIDAE	
....LEPIDOSTOMA	12
..PLECOPTERA	
...CHLOROPERLIDAE	
....ALLOPERLA	2
..TRICHOPTERA	
...HYDROPSYCHIDAE	
....HYDROPSYCHE	3
.ARACHNIDA	
..HYDRACARINA	
...UNKNOWN FAMILY	
....UNKNOWN GENUS #3	2
MOLLUSCA (MOLLUSCS)	
.GASTROPODA	
..BASOMMATOPHORA	
...LYMNAEIDAE	
....LYMNAEA	1

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

09253400 BATTLE CREEK NEAR ENCAMPMENT, WY (LAT 41 08 00 LONG 107 03 50)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)
AUG											
07...	1330	E2.0	100	8.0	19.0	--	10.2	54	16	17	2.8
SEP											
28...	1431	1.0	120	8.2	15.0	1	8.8	72	27	23	3.6

E-Estimate.

DATE	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
AUG											
07...	4.3	.3	.8	46	0	38	18	2.0	.3	9.9	78
SEP											
28...	5.8	.3	.7	55	0	45	32	3.4	.4	9.6	106

DATE	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	SOLIDS, VOLATILE IN BOTTOM MATERIAL (MG/KG)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)
AUG											
07...	.11	.42	--	.05	--	.01	--	.18	--	--	.19
SEP											
28...	.14	.29	39900	.17	.00	.01	.11	.14	.11	.00	.15

DATE	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	PHYTOPLANKTON, TOTAL (CELLS PER ML)	INVERTEBRATES, BENTHIC WET WT. (G/SQ METER)	BIOMASS CHLOROPHYLL RATIO PLANKTON (UNITS)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)
AUG											
07...	.01	.01	.10	.31	14	.9	1488000	.088	.000	--	--
SEP											
28...	.02	.00	.00	.00	1400	1.6	39470	.076	.000	4	.01

DATE	TIME	ALUMINUM, RECOV. FM BOTTOM MATERIAL (UG/G)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)
AUG								
07...	1330	--	20	--	--	--	--	--
SEP								
28...	1431	12000	30	1	0	1	6	5

DATE	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	MOLYBDENUM, RECOV. FM BOTTOM MATERIAL (UG/G)
AUG							
07...	--	30	--	--	--	6	--
SEP							
28...	26	40	3	2	0	10	10

09253400 BATTLE CREEK NEAR ENCAMPMENT, WY (LAT 41 08 00 LONG 107 03 50)--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO SEPTEMBER 1978

	AUG 7,78	SEP 28,78
DATE	AUG 7,78	SEP 28,78
TIME	1330	1431
TOTAL CELLS/ML	14	1400
DIVERSITY: DIVISION	0.0	0.9
.CLASS	0.0	0.9
..ORDER	0.0	0.9
...FAMILY	0.0	1.1
....GENUS	0.0	1.2

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)				
.CHLOROPHYCEAE				
..CHLOROCOCCALES				
...OOCYSTACEAE				
....OOCYSTIS	--	-	14	1
CHRYSOPHYTA				
.BACILLARIOPHYCEAE				
..PENNALES				
...ACHNANTHACEAE				
....ACHNANTHES	--	-	14	1
...FRAGILARIACEAE				
....FRAGILARIA	--	-	14	1
....SYNEDRA	--	-	260#	18
...GOMPHONEMATACEAE				
....GOMPHONEMA	--	-	14	1
...NITZSCHIACEAE				
....NITZSCHIA	14#	100	43	3
CYANOPHYTA (BLUE-GREEN ALGAE)				
.CYANOPHYCEAE				
..HORMOGONALES				
...OSCILLATORIACEAE				
....OSCILLATORIA	--	-	1100#	75

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

AUG. 7, 1978
1330 HOURS

PERIPHYTON IDENTIFICATION

	_ORGANISM__NAME______________	_COMMON__NAME______
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..CHLOROCOCCALES	
	...OOCYSTACEAE	
	....ANKISTRODESMUS	
	..ULOTRICHALES	
	...CHAETOPHORACEAE	
&	....STIGEOCLONIUM	
	..ZYGNEMATALES	
	...ZYGNEMATACEAE	
	....SPIROGYRA	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
	....ACHNANTHES	
	...DIATOMACEAE	
	....DIATOMA	
	...NAVICULACEAE	NAVICULOID
	....NAVICULA	
	...NITZSCHIACEAE	
	....NITZSCHIA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.CYANOPHYCEAE	
	..HORMOGONALES	FILAMENTOUS BL-GREEN
	...OSCILLATORIACEAE	
&	....OSCILLATORIA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: SLIDE MOUNTING, INVERTED MICROSCOPE

GREEN RIVER BASIN

09253400 BATTLE CREEK NEAR ENCAMPMENT, WY (LAT 41 08 00 LONG 107 03 50)--Continued

BENTHIC INVERTEBRATE ANALYSES, OCTOBER 1977 TO SEPTEMBER 1978

DATE	AUG 7,78	SEP 28,78
TIME	1330	1431
TOTAL COUNT	68	109
DIVERSITY: PHYLUM	0.0	0.0
.CLASS	0.1	0.6
..ORDER	1.5	2.4
...FAMILY	2.1	3.4
....GENUS	2.3	3.7
....GENUS-INSECTA	2.2	3.6
ORGANISM	COUNT	COUNT
ARTHROPODA (ARTHROPODS)		
.INSECTA		
..COLEOPTERA		
...ELMIDAE		
....HETERLIMNIUS	4	7
....STENELMIS	2	--
....ZAITZEVIA	--	2
..DIPTERA		
...CHIRONOMIDAE		
....CONCHAPELOPIA	--	4
....DIAMESA	--	3
....ORTHOCLADIUS	1	2
....POLYPEDILUM	1	--
....ZAVRELIMYIA	1	--
...PSYCHODIDAE		
....PERICOMA	--	2
...SIMULIIDAE		
....SIMULIUM	3	--
...TIPULIDAE		
....LIMNOPHILA	--	1
..EPHEMEROPTERA		
...BAETIDAE		
....BAETIS	42	8
...EPHEMERELLIDAE		
....EPHEMERELLA	3	14
...HEPTAGENIIDAE		
....EPEORUS	2	--
....STENONEMA	--	8
...LEPTOPHLEBIIDAE		
....PARALEPTOPHLEBIA	--	11
..PLECOPTERA		
...CHLOROPERLIDAE		
....ALLOPERLA	--	9
..TRICHOPTERA		
...BRACHYCENTRIDAE		
....BRACHYCENTRUS	4	8
...HYDROPSYCHIDAE		
....CHEUMATOPSYCHE	--	5
...LEPIDOSTOMATIDAE		
....LEPIDOSTOMA	3	--
...HYDROPSYCHIDAE		
....HYDROPSYCHE	--	8
..PLECOPTERA		
...PERLODIDAE		
....ISOGENUS	1	--
.ARACHNIDA		
..HYDRACARINA		
...UNKNOWN FAMILY		
....UNKNOWN GENUS #3	1	17

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

410910107070101 HAGGARTY CREEK ABOVE COPPERTON, WY (LAT 41 09 10 LONG 107 07 01)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO
MAR 23...	1620	1.0	.5	28	8	9.0	1.4	1.4	.1

DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)
MAR 23...	.6	23	1	21	5.5	.3	9.4	41	.06

DATE	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)
MAR 23...	.11	.14	.37	.05	.32	.01	.00	.00

DATE	TIME	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)
MAR 23...	1620	40	0	200	2	0	14	40

DATE	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO)	SELE-NIUM, TOTAL (UG/L AS SE)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)
MAR 23...	30	13	0	.0	5	6	1	30

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

410910107070601 HAGGARTY CREEK BELOW COPPERTON, WY (LAT 41 09 10 LONG 107 07 06)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
AUG											
07...	1430	2.0	37	8.4	19.0	1	8.8	14	0	4.3	.9
SEP											
29...	1100	1.0	55	7.6	12.0	1	7.7	19	0	6.4	.8

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
AUG											
07...	1.2	.1	.4	17	1	16	2.4	.1	.1	8.4	27
SEP											
29...	1.4	.1	.8	26	0	21	3.3	.3	.0	9.1	35

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SOLIDS, VOLA-TILE IN BOTTOM MA-TERIAL (MG/KG)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)
AUG											
07...	.04	.15	--	.02	--	.01	--	.37	--	--	.38
SEP											
29...	.05	.09	13000	.03	.00	.00	.15	.21	.15	.00	.21

DATE	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	PHYTO-PLANK-TON, TOTAL (CELLS PER ML)	IN-VERTE-BRATES, BENTHIC WET WT. (G/SQ METER)	BIOMASS CHLORO-PHYLL RATIO PLANK-TON (UNITS)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
AUG											
07...	.01	.01	.01	.03	37	1.7	681400	.199	.000	5	.03
SEP											
29...	.01	.00	.00	.00	14	--	3190	.000	.000	6	.02

DATE	TIME	ALUM-INUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)
AUG								
07...	1430	--	8	--	--	--	--	--
SEP								
29...	1100	5100	30	1	0	0	14	10

DATE	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MOLYB-DENUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)
AUG							
07...	--	20	--	--	--	3	--
SEP							
29...	12	20	4	1	0	0	5

410910107070601 HAGGARTY CREEK BELOW COPPERTON, WY (LAT 41 09 10 LONG 107 07 06)--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO AUGUST 1978

DATE	AUG 7,78
TIME	1430
TOTAL CELLS/ML	37
DIVERSITY: DIVISION	0.3
.CLASS	0.3
..ORDER	0.3
...FAMILY	0.3
....GENUS	0.3

ORGANISM	CELLS /ML	PER-CENT
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...NAVICULACEAE		
....NAVICULA	2	5
CYANOPHYTA (BLUE-GREEN ALGAE)		
.CYANOPHYCEAE		
..HORMOGONALES		
...OSCILLATORIACEAE		
....OSCILLATORIA	36#	95

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO SEPTEMBER 1978

DATE	SEP 29,78
TIME	1100
TOTAL CELLS/ML	14
DIVERSITY: DIVISION	0.0
.CLASS	0.0
..ORDER	0.0
...FAMILY	0.0
....GENUS	0.0

ORGANISM	CELLS /ML	PER-CENT
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...ACHNANTHACEAE		
....ACHNANTHES	14#	100

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

AUG. 7, 1978
1430 HOURS

IDENTIFICATION OF PERIPHYTON

ORGANISM NAME	COMMON NAME
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..CENTRALES	CENTRIC
...COSCINODISCACEAE	
....MELOSIRA	
..PENNALES	PENNATE
...CYMBELLACEAE	
....CYMBELLA	
...DIATOMACEAE	
....DIATOMA	
...NAVICULACEAE	NAVICULOID
....NAVICULA	
CYANOPHYTA	BLUE-GREEN ALGAE
.CYANOPHYCEAE	
..CHROCCOCCALES	COCCOID BLUE-GREENS
...CHROCCOCCAEAE	
& ....ANACYSTIS	
..HORMOGONALES	FILAMENTOUS BL-GREEN
...OSCILLATORIACEAE	
& ....LYNGBYA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: SLIDE MOUNTING, INVERTED MICROSCOPE

GREEN RIVER BASIN

410910107070601 HAGGARTY CREEK BELOW COPPERTON, WY (LAT 41 09 10 LONG 107 07 06)--Continued

SEP. 29, 1978
1100 HOURS

PERIPHYTON IDENTIFICATION

_ORGANISM__NAME______________	_COMMON__NAME______
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..CHLOROCOCCALES	
...OOCYSTACEAE	
....OOCYSTIS	
..ULOTRICHALES	
...ULOTRICHACEAE	
....ULOTHRIX	
..VOLVOCALES	
...CHLAMYDOMONADACEAE	
..ZYGNEMATALES	
...DESMIDIACEAE	PLACODERM DESMIDS
....COSMARIUM	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..CENTRALES	CENTRIC
...COSCINODISCACEAE	
....MELOSIRA	
..PENNALES	PENNATE
...ACHNANTHACEAE	
....ACHNANTHES	
....COCCONEIS	
...CYMBELLACEAE	
....CYMBELLA	
...DIATOMACEAE	
....DIATOMA	
...GOMPHONEMATACEAE	
....GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
....NAVICULA	
....PINNULARIA	
CYANOPHYTA	BLUE-GREEN ALGAE
.CYANOPHYCEAE	
..CHROOCOCCALES	COCCOID BLUE-GREENS
...CHROOCOCCACEAE	
....ANACYSTIS	
..HORMOGONALES	FILAMENTOUS BL-GREEN
...NOSTOCACEAE	
& ....ANABAENA	
...OSCILLATORIACEAE	
& ....LYNGBYA	
....OSCILLATORIA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
SAMPLING METHOD: PLASTIC SLIDES, TIMED SAMPLING INTERVAL
ANALYSIS METHOD: SLIDE MOUNTING, INVERTED MICROSCOPE

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

410910107070601 HAGGARTY CREEK BELOW COPPERTON, WY (LAT 41 09 10 LONG 107 07 06)--Continued

BENTHIC INVERTEBRATE ANALYSES, OCTOBER 1977 TO AUGUST 1978

DATE	AUG 7,78
TIME	1430
TOTAL COUNT	43
DIVERSITY: PHYLUM	0.0
.CLASS	0.0
..ORDER	0.4
...FAMILY	1.1
....GENUS	1.1
....GENUS-INSECTA	1.1

ORGANISM	COUNT
ARTHROPODA (ARTHROPODS)	
.INSECTA	
..EPHEMEROPTERA	
...BAETIDAE	
....BAETIS	31
...HEPTAGENIIDAE	
....EPEORUS	9
..TRICHOPTERA	
...BRACHYCENTRIDAE	
....BRACHYCENTRUS	1
...RHYACOPHILIDAE	
....RHYACOPHILA	2

BENTHIC INVERTEBRATE ANALYSES, OCTOBER 1977 TO SEPTEMBER 1978

DATE	SEP 29,78
TIME	1100
TOTAL COUNT	39
DIVERSITY: PHYLUM	0.0
.CLASS	0.0
..ORDER	1.6
...FAMILY	1.8
....GENUS	2.0
....GENUS-INSECTA	2.0

ORGANISM	COUNT
ARTHROPODA (ARTHROPODS)	
.INSECTA	
..DIPTERA	
...CHIRONOMIDAE	
....CRICOTOPUS	2
....DIAMESA	7
..EPHEMEROPTERA	
...BAETIDAE	
....BAETIS	9
..PLECOPTERA	
...CHLOROPERLIDAE	
....PARAPERLA	18
..TRICHOPTERA	
...RHYACOPHILIDAE	
....RHYACOPHILA	1
..PLECOPTERA	
...NEMOURIDAE	
....NEMOURA	2

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

410500107101801 BATTLE CREEK ABOVE WEST FORK, NEAR BATTLE MOUNTAIN, WY (LAT 41 05 00 LONG 107 10 18)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)
OCT											
14...	0930	4.1	90	7.8	2.0	0	10.4	42	3	12	2.8
14...	1030	--	--	--	--	0	--	--	--	--	--
MAR											
23...	1530	4.5	188	8.3	.5	--	--	47	5	14	2.9
AUG											
07...	1330	--	--	--	--	--	--	--	--	--	--

DATE	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 105 DEG. C, DISSOLVED (MG/L)
OCT											
14...	2.1	.1	.4	47	0	39	2.7	.6	.1	8.7	54
14...	--	--	--	--	--	--	--	--	--	--	--
MAR											
23...	2.5	.2	.5	51	0	42	7.5	.4	--	8.2	--
AUG											
07...	--	--	--	--	--	--	--	--	--	--	--

DATE	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)
OCT										
14...	53	.07	.59	<1	.00	.00	.00	.14	.03	.14
14...	--	--	--	--	--	--	--	--	--	--
MAR										
23...	62	.08	.75	--	.09	--	--	--	--	1.6
AUG										
07...	--	--	--	--	--	--	--	--	--	--

DATE	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	PHYTOPLANKTON, TOTAL (CELLS PER ML)	INVERTEBRATES, BENTHIC WET WT. (G/SQ METER)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)
OCT										
14...	.11	.03	.00	.00	.00	.00	110	1.3	6	.07
14...	--	--	--	--	--	--	--	--	4	--
MAR										
23...	1.4	.23	.02	--	.00	.00	--	--	--	--
AUG										
07...	--	--	--	--	--	--	--	--	13	--

410500107101801 BATTLE CREEK ABOVE WEST FORK, NEAR BATTLE MOUNTAIN, WY (LAT 41 05 00 LONG 107 10 18)--Continued

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)
OCT										
14...	0930	10	0	0	6	--	38	10	--	0
MAR										
23...	1530	--	--	--	--	1	--	--	4	--

DATE	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	ZINC, DISSOLVED (UG/L AS ZN)
OCT									
14...	80	--	140	4	.0	0	0	0	10
MAR									
23...	40	13	--	--	--	--	--	--	--

DATE	TIME	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DISSOLVED (PCI/L AS CS-137)	GRUSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DISSOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RA-226, DISSOLVED, PLANCHET COUNT (PCI/L)	URANIUM DISSOLVED, EXTRACTION (UG/L)
OCT									
14...	0930	<.6	<.4	1.0	<.4	.9	<.4	<.1	.21

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 14,77
TIME	0930
TOTAL CELLS/ML	110
DIVERSITY: DIVISION	0.9
.CLASS	0.9
..ORDER	0.9
...FAMILY	1.4
....GENUS	1.4

ORGANISM	CELLS /ML	PERCENT
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...FRAGILARIACEAE		
....SYNEDRA	11	11
...NAVICULACEAE		
....NAVICULA	11	11
...NITZSCHIACEAE		
....NITZSCHIA	11	11
CYANOPHYTA (BLUE-GREEN ALGAE)		
.CYANOPHYCEAE		
..HORMOGONALES		
...OSCILLATORIACEAE		
....OSCILLATORIA	73#	68

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

410500107101801 BATTLE CREEK ABOVE WEST FORK, NEAR BATTLE MOUNTAIN, WY (LAT 41 05 00 LONG 107 10 18)--Continued

OCT. 14, 1977
0930 HOURS

IDENTIFICATION OF PERIPHYTON

_ORGANISM__NAME	_COMMON__NAME
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...ACHNANTHACEAE	
....COCCONEIS	
...CYMBELLACEAE	
....CYMBELLA	
....RHOPALODIA	
...FRAGILARIACEAE	
....HANNAEA	
& ....SYNEDRA	
...GOMPHONEMATACEAE	
....GOMPHONEIS	
....GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
....AMPHIPLEURA	
....NAVICULA	
...NITZSCHIACEAE	
....NITZSCHIA	
CYANOPHYTA	BLUE-GREEN ALGAE
.CYANOPHYCEAE	
..HORMOGONALES	FILAMENTOUS BL-GREEN
...NOSTOCACEAE	
....ANABAENA	
...OSCILLATORIACEAE	
& ....OSCILLATORIA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

BENTHIC INVERTEBRATE ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 14,77
TIME	0930
TOTAL COUNT	49
DIVERSITY: PHYLUM	0.0
.CLASS	0.3
..ORDER	2.2
...FAMILY	3.4
....GENUS	3.4
....GENUS-INSECTA	3.3

ORGANISM	COUNT
ARTHROPODA (ARTHROPODS)	
.INSECTA	
..COLEOPTERA	
...ELMIDAE	
....OPTIOSERVUS	1
..DIPTERA	
...BLEPHAROCERIDAE	
....BIBIOCEPHALA	4
...CHIRONOMIDAE	
....RHEOTANYTARSUS	1
....SPANIOTOMA	8
..EPHEMEROPTERA	
...BAETIDAE	
....BAETIS	2
...EPHEMERELLIDAE	
....EPHEMERELLA	1
...HEPTAGENIIDAE	
....UNKNOWN GENUS	2
..PLECOPTERA	
...PTERONARCIDAE	
....PTERONARCELLA	1
..TRICHOPTERA	
...BRACHYCENTRIDAE	
....MICRASEMA	8
...GLOSSOSOMATIDAE	
....PROTOPTILA	1
...LIMNEPHILIDAE	
....PSEUDOSTENOPHYLAX	6
...RHYACOPHILIDAE	
....RHYACOPHILA	2
..PLECOPTERA	
...CHLOROPERLIDAE	
....ALLOPERLA	8
...PERLODIDAE	
....ARCYNOPTERYX	1
.ARACHNIDA	
..HYDRACARINA	
...UNKNOWN FAMILY	
....UNKNOWN GENUS #3	3

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

410505107101801 WEST FORK BATTLE CREEK ABOVE MOUTH, NEAR BATTLE MOUNTAIN, WY (LAT 41 05 05 LONG 107 10 18)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
OCT 14...	1030	.65	240	7.8	4.5	9.8	100	32	31	5.6
MAR 23...	1540	--	208	7.6	.5	--	64	24	19	4.1

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)
OCT 14...	7.8	.3	.8	83	0	68	40	5.4	.3	9.3
MAR 23...	5.9	.3	.7	49	0	40	28	2.2	--	7.9

DATE	SOLIDS, RESIDUE AT 105 DEG. C, DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)
OCT 14...	140	141	.19	.25	1	.00	.00	.00	.09	.07
MAR 23...	--	92	.13	--	--	.08	--	--	--	--

DATE	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, NH4 + ORG. SUSP, TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	PHYTO-PLANK-TON, TOTAL (CELLS PER ML)	IN-VERTE-BRATES, BENTHIC WET WT. (G/SQ METER)
OCT 14...	.09	.02	.07	.00	.00	.00	.00	150	.2
MAR 23...	.32	.11	.21	.02	--	.00	.00	--	--

DATE	TIME	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)
OCT 14...	1030	0	0	0	20	--	0	25	--	2
MAR 23...	1540	--	--	--	--	4	--	--	7	--

DATE	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT 14...	70	--	2	8	.0	0	0	0	10
MAR 23...	80	19	--	--	--	--	--	--	--

GREEN RIVER BASIN

410505107101801 WEST FORK BATTLE CREEK ABOVE MOUTH, NEAR BATTLE MOUNTAIN, WY--Continued

(LAT 41 05 05 LONG 107 10 18)

DATE	TIME	GROSS ALPHA, DIS-SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RA-226, DIS-SOLVED, PLAN-CHET COUNT (PCI/L)	URANIUM DIS-SOLVED, EXTRAC-TION (UG/L)
OCT									
14...	1030	<1.5	<.4	2.6	<.4	2.3	<.4	<.1	.22

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 14,77
TIME	1030
TOTAL CELLS/ML	150
DIVERSITY: DIVISION	1.0
.CLASS	1.0
..ORDER	1.7
...FAMILY	2.7
....GENUS	2.7

ORGANISM	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..VOLVOCALES		
...CHLAMYDOMONADACEAE		
....CHLAMYDOMONAS	7	5
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..CENTRALES		
...COSCINODISCACEAE		
....MELOSIRA	33#	23
..PENNALES		
...CYMBELLACEAE		
....RHOPALODIA	13	9
...FRAGILARIACEAE		
....SYNEDRA	7	5
...NAVICULACEAE		
....NAVICULA	26#	18
...NITZSCHIACEAE		
....NITZSCHIA	26#	18
CYANOPHYTA (BLUE-GREEN ALGAE)		
.CYANOPHYCEAE		
..HORMOGONALES		
...NOSTOCACEAE		
....ANABAENA	26#	18
...RIVULARIACEAE		
....RAPHIDIOPSIS	7	5

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

410505107101801 WEST FORK BATTLE CREEK ABOVE MOUTH, NEAR BATTLE MOUNTAIN, WY--Continued
(LAT 41 05 05 LONG 107 10 18)

OCT. 14, 1977
1030 HOURS

IDENTIFICATION OF PERIPHYTON

	ORGANISM NAME	COMMON NAME
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..ULOTRICHALES	
	...CHAETOPHORACEAE	
&	....STIGEOCLONIUM	
	...MICROSPORACEAE	
	....MICROSPORA	
	..ZYGNEMATALES	
	...DESMIDIACEAE	PLACODERM DESMIDS
	....STAURASTRUM	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
&	....ACHNANTHES	
	...CYMBELLACEAE	
&	....RHOPALODIA	
	...DIATOMACEAE	
	....DIATOMA	
	...FRAGILARIACEAE	
&	....SYNEDRA	
	...GOMPHONEMATACEAE	
	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
&	....NAVICULA	
	...NITZSCHIACEAE	
&	....NITZSCHIA	
	...SURIRELLACEAE	
	....SURIRELLA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.CYANOPHYCEAE	
	..HORMOGONALES	FILAMENTOUS BL-GREEN
	...OSCILLATORIACEAE	
	....LYNGBYA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

BENTHIC INVERTEBRATE ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 14,77
TIME	1030
TOTAL COUNT	22
DIVERSITY: PHYLUM	0.0
.CLASS	0.9
..ORDER	2.2
...FAMILY	2.4
....GENUS	2.4
....GENUS-INSECTA	2.3

ORGANISM	COUNT
ARTHROPODA (ARTHROPODS)	
.INSECTA	
..DIPTERA	
...CHIRONOMIDAE	
....SPANIOTOMA	4
...PSYCHODIDAE	
....PERICOMA	2
..EPHEMEROPTERA	
...EPHEMERELLIDAE	
....EPHEMERELLA	4
..PLECOPTERA	
...UNKNOWN FAMILY	
....UNKNOWN GENUS	2
..TRICHOPTERA	
...LEPIDOSTOMATIDAE	
....LEPIDOSTOMA	3
.ARACHNIDA	
..HYDRACARINA	
...UNKNOWN FAMILY	
....UNKNOWN GENUS #3	7

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

410212107133901 BATTLE CREEK NEAR MOUTH, NEAR BATTLE CREEK, CO (LAT 41 02 12 LONG 107 13 39)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)
OCT 14...	1345	5.8	150	8.0	8.5	0	9.4	68	9	19	4.9

DATE	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 105 DEG. C, DISSOLVED (MG/L)
OCT 14...	3.6	.2	.7	72	0	59	11	1.2	.2	8.3	90

DATE	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)
OCT 14...	85	.12	1.3	<1	.01	.00	.01	.06	.08	.06

DATE	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	PHYTOPLANKTON, TOTAL (CELLS PER ML)	INVERTEBRATES, BENTHIC WET WT. (G/SQ METER)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)
OCT 14...	.00	.09	.00	.00	.01	.03	250	3.1	5	.08

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BORON, DISSOLVED (UG/L AS B)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)
OCT 14...	1345	10	0	0	10	2	10	1

DATE	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	ZINC, DISSOLVED (UG/L AS ZN)
OCT 14...	70	12	10	.0	0	0	0	10

DATE	TIME	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DISSOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DISSOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RA-226, DISSOLVED, PLANCHET COUNT (PCI/L)	URANIUM DISSOLVED, EXTRACTION (UG/L)
OCT 14...	1345	<1.0	<.4	2.0	<.4	1.8	<.4	<.1	.17

410212107133901 BATTLE CREEK NEAR MOUTH, NEAR BATTLE CREEK, CO (LAT 41 02 12 LONG 107 13 39)--Continued

PHYTOPLANKTON ANALYSES, 1971 TO OCTOBER 1977

DATE	OCT 14,77
TIME	1345
TOTAL CELLS/ML	250
DIVERSITY: DIVISION	1.5
.CLASS	1.5
..ORDER	1.7
...FAMILY	2.3
....GENUS	2.3

ORGANISM	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..ZYGNEMATALES		
...DESMIDIACEAE		
....STAURASTRUM	13	5
...ZYGNEMATACEAE		
....MOUGEOTIA	39#	15
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..CENTRALES		
...COSCINODISCACEAE		
....CYCLOTELLA	13	5
..PENNALES		
...FRAGILARIACEAE		
....SYNEDRA	7	3
...GOMPHONEMATACEAE		
....GOMPHONEMA	7	3
...NAVICULACEAE		
....NAVICULA	7	3
...NITZSCHIACEAE		
....NITZSCHIA	39#	15
...SURIRELLACEAE		
....CYMATOPLEURA	7	3
CYANOPHYTA (BLUE-GREEN ALGAE)		
.CYANOPHYCEAE		
..HORMOGONALES		
...NOSTOCACEAE		
....ANABAENA	120#	49

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

OCT. 14, 1977
1345 HOURS

PERIPHYTON IDENTIFICATION

	_ORGANISM__NAME_______________	_COMMON__NAME_______
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..ZYGNEMATALES	
	...DESMIDIACEAE	PLACODERM DESMIDS
	....CLOSTERIUM	
	...ZYGNEMATACEAE	
&	....MOUGEOTIA	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..CENTRALES	CENTRIC
	...COSCINODISCACEAE	
	....MELOSIRA	
	..PENNALES	PENNATE
	...CYMBELLACEAE	
&	....EPITHEMIA	
	....RHOPALODIA	
	...FRAGILARIACEAE	
	....SYNEDRA	
	...GOMPHONEMATACEAE	
	....GOMPHONEIS	
	....GOMPHONEMA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.CYANOPHYCEAE	
	..HORMOGONALES	FILAMENTOUS BL-GREEN
	...NOSTOCACEAE	
&	....ANABAENA	

NOTE: & - ESTIMATED DOMINANT ORGANISM: NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

410212107133901 BATTLE CREEK NEAR MOUTH, NEAR BATTLE CREEK, CO (LAT 41 02 12 LONG 107 13 39)--Continued

BENTHIC INVERTEBRATE ANALYSES, 1971 TO OCTOBER 1977

DATE	OCT 14,77
TIME	1345
TOTAL COUNT	86
DIVERSITY: PHYLUM	0.0
.CLASS	0.3
..ORDER	2.3
...FAMILY	3.3
....GENUS	3.5
....GENUS-INSECTA	3.4

ORGANISM	COUNT
ARTHROPODA (ARTHROPODS)	
.INSECTA	
..COLEOPTERA	
...ELMIDAE	
....OPTIOSERVUS	6
....ZAITZEVIA	4
...HYDROPHILIDAE	
....HELOPHORUS	1
..DIPTERA	
...CHIRONOMIDAE	
....TANYTARSUS	5
...PSYCHODIDAE	
....PERICOMA	1
...TIPULIDAE	
....ANTOCHA	2
..EPHEMEROPTERA	
...EPHEMERELLIDAE	
....EPHEMERELLA	12
...HEPTAGENIIDAE	
....RHITHROGENA	1
...LEPTOPHLEBIIDAE	
....PARALEPTOPHLEBIA	1
..PLECOPTERA	
...PTERONARCIDAE	
....PTERONARCELLA	1
..TRICHOPTERA	
...BRACHYCENTRIDAE	
....BRACHYCENTRUS	10
...HYDROPSYCHIDAE	
....ARCTOPSYCHE	1
....CHEUMATOPSYCHE	1
...HYDROPTILIDAE	
....HYDROPTILA	1
...LEPIDOSTOMATIDAE	
....LEPIDOSTOMA	5
..PLECOPTERA	
...CHLOROPERLIDAE	
....ALLOPERLA	10
..TRICHOPTERA	
...HYDROPSYCHIDAE	
....HYDROPSYCHE	19
.ARACHNIDA	
..HYDRACARINA	
...UNKNOWN FAMILY	
....UNKNOWN GENUS #3	5

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

09253500 BATTLE CREEK NEAR SLATER, CO (LAT 41 00 12 LONG 107 14 16)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)
MAR 23...	1530	E30	230	8.0	3.5	2	12.0	89	12	25	6.4
AUG 07...	1130	3.0	120	8.2	19.0	--	8.2	53	6	15	3.7
SEP 28...	1226	5.0	150	8.2	15.0	1	8.9	74	13	22	4.6

E-Estimate.

DATE	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
MAR 23...	6.2	.3	1.0	94	0	77	22	.1	--	7.1	115
AUG 07...	7.3	.4	1.0	57	0	47	11	6.2	.1	9.1	83
SEP 28...	3.6	.2	.8	74	0	61	13	.9	.1	7.7	90

DATE	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	SOLIDS, VOLATILE IN BOTTOM MATERIAL (MG/KG)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)
MAR 23...	.16	--	--	.08	--	--	--	--	.32	.00	.32
AUG 07...	.11	.67	--	.06	--	.24	--	.30	--	--	.54
SEP 28...	.12	1.22	26300	.04	.01	.01	.29	.20	.30	.09	.21

DATE	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	PHYTOPLANKTON, TOTAL (CELLS PER ML)	INVERTEBRATES, BENTHIC WET WT. (G/SQ METER)	BIOMASS CHLOROPHYLL RATIO PLANKTON (UNITS)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)
MAR 23...	.02	--	.01	.03	--	--	--	.000	.000	22	1.8
AUG 07...	.01	.14	.14	.43	4	1.1	839000	.159	.033	14	.11
SEP 28...	.02	.00	.00	.00	29	4.5	--	.000	.000	9	.12

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

09253500 BATTLE CREEK NEAR SLATER, CO (LAT 41 00 12 LONG 107 14 16)--Continued

DATE	TIME	ALUMINUM, RECOV. FM BOTTOM MATERIAL (UG/G)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)
MAR								
23...	1530	--	--	--	--	--	--	--
AUG								
07...	1130	--	20	--	--	--	--	--
SEP								
28...	1226	7200	160	1	1	1	2	1

DATE	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	MOLYBDENUM, RECOV. FM BOTTOM MATERIAL (UG/G)
MAR							
23...	--	60	--	--	--	--	--
AUG							
07...	--	70	--	--	--	3	--
SEP							
28...	13	450	5	2	0	20	5

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO SEPTEMBER 1978

DATE	AUG 7,78	SEP 28,78
TIME	1130	1226
TOTAL CELLS/ML	4	29
DIVERSITY: DIVISION	0.0	0.0
.CLASS	0.0	0.0
..ORDER	0.0	0.0
...FAMILY	0.0	1.0
....GENUS	0.0	1.0

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHRYSOPHYTA				
.BACILLARIOPHYCEAE				
..PENNALES				
...FRAGILARIACEAE				
....FRAGILARIA	--	-	14#	50
...NAVICULACEAE				
....NAVICULA	4#	100	--	-
...NITZSCHIACEAE				
....NITZSCHIA	--	-	14#	50

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

09253500 BATTLE CREEK NEAR SLATER, CO (LAT 41 00 12 LONG 107 14 16)--Continued

AUG. 7, 1978
1130 HOURS

PERIPHYTON IDENTIFICATION

_ORGANISM__NAME_______________	_COMMON__NAME______
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..TETRASPORALES	
...COCCOMYXACEAE	
....ELAKATOTHRIX	
..ZYGNEMATALES	
...DESMIDIACEAE	PLACODERM DESMIDS
....COSMARIUM	
...ZYGNEMATACEAE	
& ....MOUGEOTIA	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..CENTRALES	CENTRIC
...COSCINODISCACEAE	
....CYCLOTELLA	
..PENNALES	PENNATE
...ACHNANTHACEAE	
....COCCONEIS	
...CYMBELLACEAE	
....CYMBELLA	
....EPITHEMIA	
...FRAGILARIACEAE	
....SYNEDRA	
...NAVICULACEAE	NAVICULOID
....NAVICULA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: SLIDE MOUNTING, INVERTED MICROSCOPE

SEP. 28, 1978
1226 HOURS

PERIPHYTON IDENTIFICATION

_ORGANISM__NAME_______________	_COMMON__NAME______
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..CHLOROCOCCALES	
...CHARACIACEAE	
..OEDOGONIALES	
...OEDOGONIACEAE	
....OEDOGONIUM	
..ZYGNEMATALES	
...ZYGNEMATACEAE	
....MOUGEOTIA	
....SPIROGYRA	
....ZYGNEMA	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..CENTRALES	CENTRIC
...COSCINODISCACEAE	
....CYCLOTELLA	
....MELOSIRA	
..PENNALES	PENNATE
...ACHNANTHACEAE	
....ACHNANTHES	
& ....COCCONEIS	
....RHOICOSPHENIA	
...CYMBELLACEAE	
....CYMBELLA	
....EPITHEMIA	
....RHOPALODIA	
...DIATOMACEAE	
....DIATOMA	
...FRAGILARIACEAE	
....SYNEDRA	
...GOMPHONEMATACEAE	
....GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
....CALONEIS	
....NAVICULA	
....PINNULARIA	
...NITZSCHIACEAE	
....NITZSCHIA	
CYANOPHYTA	BLUE-GREEN ALGAE
.CYANOPHYCEAE	
..CHROOCOCCALES	COCCOID BLUE-GREENS
...CHROOCOCCACEAE	
....ANACYSTIS	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
SAMPLING METHOD: PLASTIC SLIDES, TIMED SAMPLING INTERVAL
ANALYSIS METHOD: SLIDE MOUNTING, INVERTED MICROSCOPE

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

09253500 BATTLE CREEK NEAR SLATER, CO (LAT 41 00 12 LONG 107 14 16)--Continued

BENTHIC INVERTEBRATE ANALYSES, OCTOBER 1977 TO SEPTEMBER 1978

DATE	AUG 7,78	SEP 28,78
TIME	1130	1226
TOTAL COUNT	148	52
DIVERSITY: PHYLUM	0.0	0.0
.CLASS	0.0	0.5
..ORDER	1.5	2.0
...FAMILY	2.1	2.6
....GENUS	2.1	3.4
....GENUS-INSECTA	2.1	3.3

ORGANISM	COUNT	COUNT
ARTHROPODA (ARTHROPODS)		
.INSECTA		
..COLEOPTERA		
...ELMIDAE		
....HETERLIMNIUS	14	--
..DIPTERA		
...CHIRONOMIDAE		
....CONCHAPELOPIA	--	1
....CRICOTOPUS	--	1
....DIAMESA	--	3
....ORTHOCLADIUS	--	2
....TRICHOCLADIUS	--	1
...SIMULIIDAE		
....SIMULIUM	9	--
...TIPULIDAE		
....DICRANOTA	--	1
....HEXATOMA	--	1
....LIMNOPHILA	--	1
..EPHEMEROPTERA		
...BAETIDAE		
....BAETIS	93	--
...EPHEMERELLIDAE		
....EPHEMERELLA	2	2
...HEPTAGENIIDAE		
....UNKNOWN GENUS	2	--
..PLECOPTERA		
...CHLOROPERLIDAE		
....ALLOPERLA	--	10
...PERLIDAE		
....ACRONEURIA	--	1
...PTERONARCIDAE		
....PTERONARCELLA	2	--
..TRICHOPTERA		
...BRACHYCENTRIDAE		
....AMIOCENTRUS	--	10
....BRACHYCENTRUS	8	7
...GLOSSOSOMATIDAE		
....AGAPETUS	8	--
...HYDROPSYCHIDAE		
....ARCTOPSYCHE	--	4
....CHEUMATOPSYCHE	--	1
...LEPIDOSTOMATIDAE		
....LEPIDOSTOMA	6	--
...HYDROPSYCHIDAE		
....HYDROPSYCHE	2	--
..PLECOPTERA		
...NEMOURIDAE		
....NEMOURA	2	--
.ARACHNIDA		
..HYDRACARINA		
...UNKNOWN FAMILY		
....UNKNOWN GENUS #3	--	6

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

09255000 SLATER FORK NEAR SLATER, CO (LAT 40 58 54 LONG 107 22 58)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)
OCT												
03...	--	A12	240	--	10.0	--	--	--	--	--	--	--
14...	1250	12	230	8.3	7.0	2	--	110	0	28	9.8	8.0
NOV												
02...	--	A13	220	--	4.0	--	--	--	--	--	--	--
DEC												
13...	--	A12	220	--	1.0	--	--	--	--	--	--	--
MAR												
21...	1115	72	305	7.9	5.0	10	9.9	120	7	33	9.6	8.9

A-Daily mean discharge.

DATE	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 105 DEG. C, DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)
OCT												
03...	--	--	--	--	--	--	--	--	--	--	--	--
14...	.3	1.5	150	0	120	5.9	1.7	.2	22	150	151	.21
NOV												
02...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
13...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
21...	.4	1.5	140	0	110	17	2.3	--	17	--	158	.21

DATE	SOLIDS, DISSOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT											
03...	--	--	--	--	--	--	--	--	--	--	--
14...	5.0	6	.01	.00	.01	.30	.25	.30	.04	.26	.04
NOV											
02...	--	--	--	--	--	--	--	--	--	--	--
DEC											
13...	--	--	--	--	--	--	--	--	--	--	--
MAR											
21...	30.7	--	.02	--	--	--	--	.54	.02	.52	.07

DATE	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	PHYTOPLANKTON, TOTAL (CELLS PER ML)	INVERTEBRATES, BENTHIC WET WT. (G/SQ METER)	BIOMASS CHLOROPHYLL RATIO PLANKTON (UNITS)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT											
03...	--	--	--	--	--	--	--	--	--	--	--
14...	.03	.01	.03	170	.5	400	.500	.000	23	.77	--
NOV											
02...	--	--	--	--	--	--	--	--	--	--	--
DEC											
13...	--	--	--	--	--	--	--	--	--	--	--
MAR											
21...	--	.01	.03	--	--	6000	.500	.000	30	5.8	95

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

09255000 SLATER FORK NEAR SLATER, CO (LAT 40 58 54 LONG 107 22 58)--Continued

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHRUMIUM, DISSOLVED (UG/L AS CR)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU)
OCT 14...	1250	0	1	100	20	--	--	0	0	--	--
MAR 21...	1115	--	--	--	--	2	2	0	--	13	13

DATE	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	ZINC, DISSOLVED (UG/L AS ZN)
OCT 14...	0	40	--	--	0	10	.0	0	0	0	2
MAR 21...	0	30	10	7	3	--	--	--	--	--	--

DATE	TIME	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DISSOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DISSOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RA-226, DISSOLVED, PLANCHET COUNT (PCI/L)
OCT 14...	1250	<1.5	<.4	2.3	<.4	2.3	<.4	<.1

DATE	TIME	TEMPERATURE (DEG C)	STREAMFLOW, INSTANTANEOUS (CFS)	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM	BED MAT. FALL DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM
MAR 21...	1115	5.0	72	5	11	41	63	76	82	92	99	100

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

09255000 SLATER FORK NEAR SLATER, CO (LAT 40 58 54 LONG 107 22 58)--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 14,77
TIME	1250
TOTAL CELLS/ML	170
DIVERSITY: DIVISION	1.2
.CLASS	1.4
..ORDER	1.8
...FAMILY	3.0
....GENUS	3.0

ORGANISM	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...OOCYSTACEAE		
....CHLORELLA	5	3
....OOCYSTIS	5	3
..ULOTRICHALES		
...ULOTRICHACEAE		
....ULOTHRIX	5	3
..VOLVOCALES		
...CHLAMYDOMONADACEAE		
....CHLOROMONAS	5	3
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...ACHNANTHACEAE		
....ACHNANTHES	5	3
...CYMBELLACEAE		
....CYMBELLA	5	3
...FRAGILARIACEAE		
....SYNEDRA	14	8
...NAVICULACEAE		
....NAVICULA	23	14
...NITZSCHIACEAE		
....NITZSCHIA	56#	32
...SURIRELLACEAE		
....SURIRELLA	5	3
.CHRYSOPHYCEAE		
..CHRYSOMONADALES		
...CHROMULINACEAE		
....KEPHYRION	5	3
CYANOPHYTA (BLUE-GREEN ALGAE)		
.CYANOPHYCEAE		
..CHROOCOCCALES		
...CHROOCOCCACEAE		
....COCCOCHLORIS	9	5
..HORMOGONALES		
...OSCILLATORIACEAE		
....PORPHYROSIPHON	32#	19

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

09255000 SLATER FORK NEAR SLATER, CO (LAT 40 58 54 LONG 107 22 58)--Continued

OCT. 14, 1977
1250 HOURS

PERIPHYTON IDENTIFICATION

	ORGANISM NAME	COMMON NAME
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..CLADOPHORALES	
	...CLADOPHORACEAE	
&	....RHIZOCLONIUM	
	..OEDOGONIALES	
	...OEDOGONIACEAE	
	....OEDOGONIUM	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
	....ACHNANTHES	
	....COCCONEIS	
	....RHOICOSPHENIA	
	...CYMBELLACEAE	
&	....EPITHEMIA	
	....RHOPALODIA	
	...FRAGILARIACEAE	
	....SYNEDRA	
	...GOMPHONEMATACEAE	
	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
	....CALONEIS	
&	....NAVICULA	
	...NITZSCHIACEAE	
	....CYLINDROTHECA	
&	....NITZSCHIA	
	...SURIRELLACEAE	
	....CYMATOPLEURA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.CYANOPHYCEAE	
	..HORMOGONALES	FILAMENTOUS BL-GREEN
	...NOSTOCACEAE	
&	....ANABAENA	
	....NOSTOC	
	...OSCILLATORIACEAE	
	....LYNGBYA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

09255000 SLATER FORK NEAR SLATER, CO (LAT 40 58 54 LONG 107 22 58)--Continued

BENTHIC INVERTEBRATE ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 14,77
TIME	1250
TOTAL COUNT	123
DIVERSITY: PHYLUM	0.5
.CLASS	0.6
..ORDER	1.2
...FAMILY	2.0
....GENUS	3.2
....GENUS-INSECTA	2.9

ORGANISM	COUNT
ANNELIDA	
.OLIGOCHAETA	
..UNKNOWN ORDER	
...UNKNOWN FAMILY	
....UNKNOWN GENUS #5	11
ARTHROPODA (ARTHROPODS)	
.INSECTA	
..COLEOPTERA	
...ELMIDAE	
....DUBIRAPHIA	1
....OPTIOSERVUS	2
...HYDRAENIDAE	
....OCHTHEBIUS	1
..DIPTERA	
...CERATOPOGONIDAE	
....PALPOMYIA	1
...CHIRONOMIDAE	
....CONCHAPELOPIA	3
....CRICOTOPUS	7
....DIAMESA	6
....PARATANYTARSUS	41
....SMITTIA	3
....SPANIOTOMA	
.....SPANIOTOMA SP. G	5
....TANYTARSUS	3
...SIMULIIDAE	
....SIMULIUM	29
..EPHEMEROPTERA	
...BAETIDAE	
....BAETIS	1
....PSEUDOCLOEON	1
...EPHEMERELLIDAE	
....EPHEMERELLA	1
...SIPHLONURIDAE	
....UNKNOWN GENUS	1
..TRICHOPTERA	
...RHYACOPHILIDAE	
....RHYACOPHILA	2
..PLECOPTERA	
...CHLOROPERLIDAE	
....ALLOPERLA	1
.ARACHNIDA	
..HYDRACARINA	
...UNKNOWN FAMILY	
....UNKNOWN GENUS #3	2
MOLLUSCA (MOLLUSCS)	
.GASTROPODA	
..BASOMMATOPHORA	
...PHYSIDAE	
....PHYSA	1

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

411639107161701 DIRTYMAN FORK SAVERY CREEK AT MOUTH, NEAR BAGGS, WY (LAT 41 16 39 LONG 107 16 17)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)
OCT											
13...	0930	.85	410	8.6	2.5	1	11.6	220	30	66	13

DATE	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 105 DEG. C, DISSOLVED (MG/L)
OCT											
13...	13	.4	4.0	230	0	190	49	8.1	.3	27	300

DATE	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)
OCT										
13...	294	.40	.67	<1	.01	.00	.00	.30	.24	.30

DATE	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	PHYTOPLANKTON, TOTAL (CELLS PER ML)	INVERTEBRATES, BENTHIC WET WT. (G/SQ METER)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)
OCT										
13...	.06	.24	.01	.00	.00	.00	840	1.6	2	.00

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BORON, DISSOLVED (UG/L AS B)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)
OCT								
13...	0930	10	2	100	30	0	0	0

DATE	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	ZINC, DISSOLVED (UG/L AS ZN)
OCT								
13...	90	1	4	.0	0	0	0	10

DATE	TIME	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DISSOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DISSOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DISSOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DISSOLVED (UG/L AS U)
OCT									
13...	0930	<5.0	<.4	6.5	<.4	5.3	<.4	.06	1.5

411639107161701 DIRTYMAN FORK SAVERY CREEK AT MOUTH, NEAR BAGGS, WY--Continued
(LAT 41 16 39 LONG 107 16 17)

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 13,77
TIME	0930
TOTAL CELLS/ML	840
DIVERSITY: DIVISION	1.0
.CLASS	1.0
..ORDER	1.4
...FAMILY	2.2
....GENUS	2.3

ORGANISM	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...CHARACIACEAE		
....SCHROEDERIA	7	1
...OOCYSTACEAE		
....ANKISTRODESMUS	7	1
....OOCYSTIS	7	1
..ZYGNEMATALES		
...ZYGNEMATACEAE		
....MOUGEOTIA	30	4
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...FRAGILARIACEAE		
....SYNEDRA	22	3
...NAVICULACEAE		
....NAVICULA	15	2
...NITZSCHIACEAE		
....NITZSCHIA	74	9
CRYPTOPHYTA (CRYPTOMONADS)		
.CRYPTOPHYCEAE		
..CRYPTOMONADALES		
...CRYPTOCHRYSIDACEAE		
....RHODOMONAS	7	1
CYANOPHYTA (BLUE-GREEN ALGAE)		
.CYANOPHYCEAE		
..CHROOCOCCALES		
...CHROOCOCCACEAE		
....ANACYSTIS	60	7
..HORMOGONALES		
...NOSTOCACEAE		
....ANABAENA	390#	46
...OSCILLATORIACEAE		
....LYNGBYA	220#	27

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

411639107161701 DIRTYMAN FORK SAVERY CREEK AT MOUTH, NEAR BAGGS, WY--Continued
(LAT 41 16 39 LONG 107 16 17)

OCT. 13, 1977
0930 HOURS

PERIPHYTON IDENTIFICATION

_ORGANISM__NAME_______________	_COMMON__NAME_______
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..TETRASPORALES	
...COCCOMYXACEAE	
....ELAKATOTHRIX	
..ZYGNEMATALES	
...ZYGNEMATACEAE	
& ....MOUGEOTIA	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...CYMBELLACEAE	
....EPITHEMIA	
....RHOPALODIA	
...DIATOMACEAE	
& ....DIATOMA	
...FRAGILARIACEAE	
& ....SYNEDRA	
...GOMPHONEMATACEAE	
....GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
& ....NAVICULA	
....PINNULARIA	
...NITZSCHIACEAE	
....CYLINDROTHECA	
& ....NITZSCHIA	
CYANOPHYTA	BLUE-GREEN ALGAE
.CYANOPHYCEAE	
..HORMOGONALES	FILAMENTOUS BL-GREEN
...NOSTOCACEAE	
& ....ANABAENA	
...OSCILLATORIACEAE	
...SCYTONEMATACEAE	
....TOLYPOTHRIX	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

GREEN RIVER BASIN

411639107161701 DIRTYMAN FORK SAVERY CREEK AT MOUTH, NEAR BAGGS, WY--Continued
(LAT 41 16 39 LONG 107 16 17)

BENTHIC INVERTEBRATE ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 13,77
TIME	0930
TOTAL COUNT	209
DIVERSITY: PHYLUM	0.1
.CLASS	0.3
..ORDER	2.5
...FAMILY	3.2
....GENUS	4.1
....GENUS-INSECTA	4.0

ORGANISM	COUNT
ANNELIDA	
.OLIGOCHAETA	
..UNKNOWN ORDER	
...UNKNOWN FAMILY	
....UNKNOWN GENUS #5	2
ARTHROPODA (ARTHROPODS)	
.CRUSTACEA	
..AMPHIPODA	
...TALITRIDAE	
....HYALLELA	1
.INSECTA	
..COLEOPTERA	
...ELMIDAE	
....DUBIRAPHIA	1
....OPTIOSERVUS	38
....ZAITZEVIA	5
...HYDROPHILIDAE	
....HELOPHORUS	6
..DIPTERA	
...CERATOPOGONIDAE	
....UNKNOWN GENUS	4
...CHIRONOMIDAE	
....CRICOTOPUS	13
....PENTANEURA	16
....RHEOTANYTARSUS	12
....TANYTARSUS	21
...SIMULIIDAE	
....SIMULIUM	2
..EPHEMEROPTERA	
...BAETIDAE	
....BAETIS	10
....PARACLOEODES	1
...CAENIDAE	
....CAENIS	4
...EPHEMERELLIDAE	
....EPHEMERELLA	12
...HEPTAGENIIDAE	
....UNKNOWN GENUS	2
...LEPTOPHLEBIIDAE	
....PARALEPTOPHLEBIA	11
..HEMIPTERA	
...CORIXIDAE	
....HESPEROCORIXA	10
..PLECOPTERA	
...PTERONARCIDAE	
....PTERONARCELLA	9
..TRICHOPTERA	
...HELICOPSYCHIDAE	
....HELICOPSYCHE	1
...HYDROPSYCHIDAE	
....CHEUMATOPSYCHE	6
...LEPIDOSTOMATIDAE	
....LEPIDOSTOMA	1
...HYDROPSYCHIDAE	
....HYDROPSYCHE	11
...HYDROPTILIDAE	
....UNKNOWN GENUS	1
..DIPTERA	
...CHIRONOMIDAE	
....LIMNOCHIRONOMUS	2
.ARACHNIDA	
..HYDRACARINA	
...UNKNOWN FAMILY	
....UNKNOWN GENUS #3	7

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

411643107161701 EAST FORK SAVERY CREEK AT MOUTH, NEAR BAGGS, WY (LAT 41 16 43 LONG 107 16 17)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)
OCT 13...	0915	.50	290	8.3	3.0	3	12.2	170	3	55	7.1

DATE	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 105 DEG. C, DISSOLVED (MG/L)
OCT 13...	5.7	.2	2.6	200	0	160	9.2	2.5	.1	17	190

DATE	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)
OCT 13...	198	.27	.27	<1	.02	.01	.00	.04	.07	.05

DATE	NITROGEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	PHYTOPLANKTON, TOTAL (CELLS PER ML)	INVERTEBRATES, BENTHIC WET WT. (G/SQ METER)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)
OCT 13...	.00	.07	.02	.01	.02	.06	65	1.2	3	.00

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BORON, DISSOLVED (UG/L AS B)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)
OCT 13...	0915	10	1	200	30	0	10	0

DATE	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	ZINC, DISSOLVED (UG/L AS ZN)
OCT 13...	60	2	10	.0	0	0	0	8

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

411643107161701 EAST FORK SAVERY CREEK AT MOUTH, NEAR BAGGS, WY (LAT 41 16 43 LONG 107 16 17)--Continued

DATE	TIME	GROSS ALPHA, DIS-SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137)	GRUSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS-SOLVED (UG/L AS U)
OCT									
13...	0915	<3.5	<.4	5.0	.5	4.0	.5	.08	1.3

PHYTUPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	UCT 13,77
TIME	0915
TOTAL CELLS/ML	65
DIVERSITY: DIVISION	1.4
.CLASS	1.4
..ORDER	1.4
...FAMILY	1.7
....GENUS	1.9

ORGANISM	CELLS /ML	PER-CENT
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...FRAGILARIACEAE		
....SYNEDRA	7	11
...NAVICULACEAE		
....GYROSIGMA	7	11
....NAVICULA	7	11
CRYPTUPHYTA (CRYPTOMONADS)		
.CRYPTOPHYCEAE		
..CRYPTOMONADALES		
...CRYPTO,ONADACEAE		
....CRYPTOMONAS	7	11
CYANOPHYTA (BLUE-GREEN ALGAE)		
.CYANOPHYCEAE		
..HURMOGONALES		
...NOSTUCACEAE		
....ANABAENA	36#	56

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

411643107161701 EAST FORK SAVERY CREEK AT MOUTH, NEAR BAGGS, WY (LAT 41 16 43 LONG 107 16 17)--Continued

OCT. 13, 1977
0915 HOURS

PERIPHYTON IDENTIFICATION

ORGANISM NAME	COMMON NAME
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..ZYGNEMATALES	
...DESMIDIACEAE	PLACODERM DESMIDS
....COSMARIUM	
...ZYGNEMATACEAE	
....MOUGEOTIA	
....SPIROGYRA	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...ACHNANTHACEAE	
....ACHNANTHES	
....RHOICOSPHENIA	
...CYMBELLACEAE	
....AMPHORA	
....CYMBELLA	
....EPITHEMIA	
....RHOPALODIA	
...FRAGILARIACEAE	
....SYNEDRA	
...GOMPHONEMATACEAE	
....GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
....CALONEIS	
....FRUSTULIA	
....GYROSIGMA	
& ....NAVICULA	
....PINNULARIA	
...NITZSCHIACEAE	
....CYLINDROTHECA	
& ....NITZSCHIA	
...SURIRELLACEAE	
....CYMATOPLEURA	
....SURIRELLA	
CYANOPHYTA	BLUE-GREEN ALGAE
.CYANOPHYCEAE	
..CHROOCOCCALES	COCCOID BLUE-GREENS
...CHROOCOCCAEAE	
....AGMENELLUM	
....ANACYSTIS	
..HORMOGONALES	FILAMENTOUS BL-GREEN
...NOSTOCACEAE	
....ANABAENA	
...OSCILLATORIACEAE	
....OSCILLATORIA	
EUGLENOPHYTA	EUGLENOIDS
.EUGLENOPHYCEAE	
..EUGLENALES	
...EUGLENACEAE	
....EUGLENA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

GREEN RIVER BASIN

411643107161701 EAST FORK SAVERY CREEK AT MOUTH, NEAR BAGGS, WY (LAT 41 16 43 LONG 107 16 17)--Continued

BENTHIC INVERTEBRATE ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 13,77
TIME	0915
TOTAL COUNT	208
DIVERSITY: PHYLUM	0.5
.CLASS	0.6
..ORDER	1.5
...FAMILY	1.8
....GENUS	3.4
....GENUS-INSECTA	3.2

ORGANISM	COUNT
ANNELIDA	
.OLIGOCHAETA	
..UNKNOWN ORDER	
...UNKNOWN FAMILY	
....UNKNOWN GENUS #5	1
ARTHROPODA (ARTHROPODS)	
.INSECTA	
..COLEOPTERA	
...ELMIDAE	
....OPTIOSERVUS	46
....ZAITZEVIA	2
...HYDROPHILIDAE	
....HELOPHORUS	7
..DIPTERA	
...CERATOPOGONIDAE	
....UNKNOWN GENUS	1
...CHIRONOMIDAE	
....CLADOTANYTARSUS	8
....CORYNONEURA	1
....CRICOTOPUS	40
....EUKIEFFERIELLA	16
....MICROPSECTRA	12
....MICROTENDIPES	16
....RHEOTANYTARSUS	8
....SMITTIA	20
...TIPULIDAE	
....HEXATOMA	3
..EPHEMEROPTERA	
...CAENIDAE	
....CAENIS	2
...LEPTOPHLEBIIDAE	
....PARALEPTOPHLEBIA	3
..PLECOPTERA	
...CHLOROPERLIDAE	
....ALLOPERLA	1
.ARACHNIDA	
..HYDRACARINA	
...UNKNOWN FAMILY	
....UNKNOWN GENUS #3	2
MOLLUSCA (MOLLUSCS)	
.GASTROPODA	
..BASOMMATOPHORA	
...PHYSIDAE	
....PHYSA	19

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

412510107102501 JACKKNIFE DRAW NEAR MILLERSVILLE, WY (LAT 41 25 10 LONG 107 10 25)

DATE	TIME	TEMPERATURE (DEG C)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO
MAR 27...	1122	15.0	24	0	6.9	1.7	75	6.6

DATE	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)
MAR 27...	3.9	180	2	150	24	4.1	9.8	220	.30

DATE	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	IRON, DISSOLVED (UG/L AS FE)
MAR 27...	.53	4.6	.90	3.7	2.1	.04	.12	950

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

411639107165301 NORTH FORK SAVERY CREEK NEAR SAVERY, WY (LAT 41 16 39 LONG 107 16 53)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)
OCT											
13...	1130	5.5	280	8.6	6.0	2	11.2	150	20	56	2.8

DATE	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 105 DEG. C, DISSOLVED (MG/L)
OCT											
13...	3.0	.1	2.7	160	0	130	22	1.7	.1	29	200

DATE	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TUNS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)
OCT										
13...	197	.27	2.9	3	.02	.01	.00	.04	.02	.05

DATE	NITROGEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	PHYTOPLANKTON, TOTAL (CELLS PER ML)	INVERTEBRATES, BENTHIC WET WT. (G/SQ METER)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)
OCT										
13...	.03	.02	.04	.02	.01	.03	1200	4.6	8	.12

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BORON, DISSOLVED (UG/L AS B)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)
OCT								
13...	1130	10	3	100	20	0	0	0

DATE	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	ZINC, DISSOLVED (UG/L AS ZN)
OCT								
13...	90	1	20	.0	1	0	0	8

DATE	TIME	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DISSOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DISSOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DISSOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DISSOLVED (UG/L AS U)
OCT									
13...	1130	4.1	<.4	4.7	1.5	3.8	1.4	.09	3.2

411639107165301 NORTH FORK SAVERY CREEK NEAR SAVERY, WY (LAT 41 16 39 LONG 107 16 53)--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 13,77
TIME	1130
TOTAL CELLS/ML	1200
DIVERSITY: DIVISION	1.3
.CLASS	1.4
..ORDER	2.2
...FAMILY	2.8
....GENUS	3.4

ORGANISM	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...OOCYSTACEAE		
....ANKISTRODESMUS	29	2
....CHLORELLA	29	2
....OOCYSTIS	7	1
...SCENEDESMACEAE		
....SCENEDESMUS	29	2
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..CENTRALES		
...COSCINODISCACEAE		
....CYCLOTELLA	180#	16
....THALASSIOSIRA	220#	19
..PENNALES		
...ACHNANTHACEAE		
....COCCONEIS	7	1
...CYMBELLACEAE		
....EPITHEMIA	14	1
...FRAGILARIACEAE		
....FRAGILARIA	160	14
....SYNEDRA	43	4
...NAVICULACEAE		
....NAVICULA	22	2
...NITZSCHIACEAE		
....NITZSCHIA	87	7
.CHRYSOPHYCEAE		
..CHRYSOMONADALES		
...MALLOMONADACEAE		
....MALLOMONAS	22	2
CRYPTOPHYTA (CRYPTOMONADS)		
.CRYPTOPHYCEAE		
..CRYPTOMONADALES		
...CRYPTOCHRYSIDACEAE		
....RHODOMONAS	14	1
CYANOPHYTA (BLUE-GREEN ALGAE)		
.CYANOPHYCEAE		
..CHROOCOCCALES		
...CHROOCOCCACEAE		
....ANACYSTIS	58	5
....COCCOCHLORIS	7	1
..HORMOGONALES		
...NOSTOCACEAE		
....APHANIZOMENON	220#	19
...OSCILLATORIACEAE		
....SPIRULINA	7	1

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

411639107165301 NORTH FORK SAVERY CREEK NEAR SAVERY, WY (LAT 41 16 39 LONG 107 16 53)--Continued

OCT. 13, 1977
1130 HOURS

IDENTIFICATION OF PERIPHYTON

	ORGANISM NAME	COMMON NAME
	CHLORPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..CHLOROCOCCALES	
	...COELASTRACEAE	
	....COELASTRUM	
	...SCENEDESMACEAE	
	....SCENEDESMUS	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
	....ACHNANTHES	
	....COCCONEIS	
	....RHOICOSPHENIA	
	...CYMBELLACEAE	
	....CYMBELLA	
	....EPITHEMIA	
	...DIATOMACEAE	
&	....DIATOMA	
	...FRAGILARIACEAE	
	....FRAGILARIA	
	....SYNEDRA	
	...GOMPHONEMATACEAE	
&	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
&	....NAVICULA	
	...NITZSCHIACEAE	
&	....NITZSCHIA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.CYANOPHYCEAE	
	..CHROCCOCCALES	COCCOID BLUE-GREENS
	...CHROCCOCCACEAE	
	....AGMENELLUM	
	..HORMOGONALES	FILAMENTOUS BL-GREEN
	...NOSTOCACEAE	
	....ANABAENA	
	...OSCILLATORIACEAE	
	....LYNGBYA	
	...RIVULARIACEAE	
&	....CALOTHRIX	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

411639107165301 NORTH FORK SAVERY CREEK NEAR SAVERY, WY (LAT 41 16 39 LONG 107 16 53)--Continued

BENTHIC INVERTEBRATE ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 13,77
TIME	1130
TOTAL COUNT	115
DIVERSITY: PHYLUM	0.1
.CLASS	0.1
..ORDER	2.0
...FAMILY	3.3
....GENUS	3.8
....GENUS-INSECTA	3.7

ORGANISM	COUNT
ARTHROPODA (ARTHROPODS)	
.INSECTA	
..COLEOPTERA	
...ELMIDAE	
....OPTIOSERVUS	21
....ZAITZEVIA	1
..DIPTERA	
...CHIRONOMIDAE	
....EUKIEFFERIELLA	2
....MICROPSECTRA	1
....MICROTENDIPES	3
....SPANIOTOMA	7
...RHAGIONIDAE	
....ATHERIX	3
...SIMULIIDAE	
....SIMULIUM	1
...TIPULIDAE	
....ANTOCHA	1
....HEXATOMA	1
..EPHEMEROPTERA	
...BAETIDAE	
....BAETIS	1
...EPHEMERELLIDAE	
....EPHEMERELLA	3
...LEPTOPHLEBIIDAE	
....PARALEPTOPHLEBIA	4
..PLECOPTERA	
...CAPNIIDAE	
....ALLOCAPNIA	2
..TRICHOPTERA	
...BRACHYCENTRIDAE	
....BRACHYCENTRUS	23
....MICRASEMA	1
...GLUSSOSOMATIDAE	
....GLOSSOSOMA	2
....PROTOPTILA	2
...HELICOPSYCHIDAE	
....HELICOPSYCHE	11
...HYDROPSYCHIDAE	
....ARCTOPSYCHE	1
....CHEUMATOPSYCHE	5
..PLECOPTERA	
...CHLOROPERLIDAE	
....ALLOPERLA	6
..TRICHOPTERA	
...HYDROPSYCHIDAE	
....HYDROPSYCHE	11
.ARACHNIDA	
..HYDRACARINA	
...UNKNOWN FAMILY	
....UNKNOWN GENUS #3	1
MOLLUSCA (MOLLUSCS)	
.GASTROPODA	
..BASOMMATOPHORA	
...LYMNAEIDAE	
....LYMNAEA	1

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

411607107213401 LITTLE SAVERY CREEK NEAR MC CARY RANCH, WY (LAT 41 16 07 LONG 107 21 34)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
OCT											
13...	0950	4.1	485	8.6	2.5	5	10.2	240	44	85	5.8

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 105 DEG. C, DIS-SOLVED (MG/L)
OCT											
13...	5.6	.2	5.7	230	2	190	66	3.0	.2	38	290

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)
OCT										
13...	325	.44	3.6	4	.01	.00	.00	.05	.06	.05

DATE	NITRO-GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	PHYTO-PLANK-TON, TOTAL (CELLS PER ML)	IN-VERTE-BRATES, BENTHIC WET WT. (G/SQ METER)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
OCT										
13...	.00	.06	.07	.06	.03	.09	660	4.0	44	.49

DATE	TIME	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, DIS-SOLVED (UG/L AS CU)
OCT								
13...	0950	10	4	100	20	0	10	0

DATE	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT								
13...	200	5	20	.0	5	0	0	10

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

411607107213401 LITTLE SAVERY CREEK NEAR MC CARY RANCH, WY (LAT 41 16 07 LONG 107 21 34)--Continued

DATE	TIME	GROSS ALPHA, DIS-SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS-SOLVED (UG/L AS U)
OCT									
13...	0950	11	<.4	9.2	1.1	7.3	1.0	.10	4.4

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 13,77
TIME	0950
TOTAL CELLS/ML	660
DIVERSITY: DIVISION	1.1
.CLASS	1.1
..ORDER	1.1
...FAMILY	2.6
....GENUS	2.7

ORGANISM	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...SCENEDESMACEAE		
....SCENEDESMUS	32	5
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..CENTRALES		
...COSCINODISCACEAE		
....CYCLOTELLA	8	1
..PENNALES		
...ACHNANTHACEAE		
....COCCONEIS	24	4
...CYMBELLACEAE		
....EPITHEMIA	8	1
...DIATOMACEAE		
....DIATOMA	32	5
...FRAGILARIACEAE		
....FRAGILARIA	230#	35
....SYNEDRA	8	1
...GOMPHONEMATACEAE		
....GOMPHONEMA	8	1
...NAVICULACEAE		
....NAVICULA	24	4
...NITZSCHIACEAE		
....NITZSCHIA	110#	17
...SURIRELLACEAE		
....SURIRELLA	16	2
CYANOPHYTA (BLUE-GREEN ALGAE)		
.CYANOPHYCEAE		
..HORMOGONALES		
...OSCILLATORIACEAE		
....OSCILLATORIA	160#	24

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

GREEN RIVER BASIN

411607107213401 LITTLE SAVERY CREEK NEAR MC CARY RANCH, WY (LAT 41 16 07 LONG 107 21 34)--Continued

OCT. 13, 1977
0950 HOURS

PERIPHYTON IDENTIFICATION

	_ORGANISM__NAME_______________	_COMMON__NAME_______
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..CHLOROCOCCALES	
	...OOCYSTACEAE	
	....ANKISTRODESMUS	
	..OEDOGONIALES	
	...OEDOGONIACEAE	
	....OEDOGONIUM	
	..ULOTHRICHALES	
	...CHAETOPHORACEAE	
	....STIGEOCLONIUM	
	...ULOTRICHACEAE	
	....GEMINELLA	
	..ZYGNEMATALES	
	...DESMIDIACEAE	PLACODERM DESMIDS
	....COSMARIUM	
	...ZYGNEMATACEAE	
	....MOUGEOTIA	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
	....ACHNANTHES	
	....COCCONEIS	
	...CYMBELLACEAE	
	....AMPHORA	
	....CYMBELLA	
	....EPITHEMIA	
	....RHOPALODIA	
	...DIATOMACEAE	
&	....DIATOMA	
	...FRAGILARIACEAE	
&	....FRAGILARIA	
&	....SYNEDRA	
	...GOMPHONEMATACEAE	
	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
	....CALONEIS	
&	....NAVICULA	
	....NEIDIUM	
	...NITZSCHIACEAE	
&	....NITZSCHIA	
	...SURIRELLACEAE	
	....CYMATOPLEURA	
	....SURIRELLA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.CYANOPHYCEAE	
	..CHROOCOCCALES	COCCOID BLUE-GREENS
	...CHROOCOCCACEAE	
	....AGMENELLUM	
	..HORMOGONALES	FILAMENTOUS BL-GREEN
	...NOSTOCACEAE	
	....ANABAENA	

NOTE: & - ESTIMATED DOMINANT ORGANISM: NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

411607107213401 LITTLE SAVERY CREEK NEAR MC CARY RANCH, WY (LAT 41 16 07 LONG 107 21 34)--Continued

BENTHIC INVERTEBRATE ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 13,77
TIME	0950
TOTAL COUNT	86
DIVERSITY: PHYLUM	0.7
.CLASS	0.8
..ORDER	1.8
...FAMILY	2.2
....GENUS	3.7
....GENUS-INSECTA	3.3

ORGANISM	COUNT
ANNELIDA	
.OLIGOCHAETA	
..UNKNOWN ORDER	
...UNKNOWN FAMILY	
....UNKNOWN GENUS #5	2
ARTHROPODA (ARTHROPODS)	
.INSECTA	
..COLEOPTERA	
...ELMIDAE	
....DUBIRAPHIA	4
..DIPTERA	
...CHIRONOMIDAE	
....CHIRONOMUS	5
....CRYPTOCHIRONOMUS	5
....EPOICOCLADIUS	1
....PENTANEURA	4
....PHAENOPSECTRA	14
....RHEOTANYTARSUS	15
...TIPULIDAE	
....TIPULA	3
..EPHEMEROPTERA	
...CAENIDAE	
....CAENIS	7
...TRICORYTHIDAE	
....TRICORYTHODES	5
..MEGALOPTERANS	
...SIALIDAE	
....SIALIS	3
..DIPTERA	
...CHIRONOMIDAE	
....LIMNOCHIRONOMUS	7
.ARACHNIDA	
..HYDRACARINA	
...UNKNOWN FAMILY	
....UNKNOWN GENUS #3	1
MOLLUSCA (MOLLUSCS)	
.GASTROPODA	
..BASOMMATOPHORA	
...LYMNAEIDAE	
....LYMNAEA	3
...PHYSIDAE	
....PHYSA	7

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

09255500 SAVERY CREEK AT UPPER STATION, NEAR SAVERY, WY (LAT 41 13 05 LONG 107 22 18)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)
OCT												
12...	1230	11	425	8.5	5.0	2	10.4	210	40	72	6.2	6.3
MAR												
20...	1500	40	255	8.0	4.5	20	10.0	180	39	55	10	7.2
AUG												
07...	1020	5.0	350	8.2	17.0	--	8.4	150	10	46	8.5	6.4
SEP												
28...	1046	20	325	8.1	12.0	1	9.1	180	36	61	7.6	7.4

DATE	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 105 DEG. C, DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)
OCT												
12...	.2	4.3	200	1	170	53	3.3	.2	29	280	274	.37
MAR												
20...	.2	2.3	170	0	140	47	2.7	--	16	--	244	--
AUG												
07...	.2	2.8	170	0	140	30	2.4	.2	17	--	197	.27
SEP												
28...	.2	.7	180	0	150	38	3.5	.2	19	--	227	.31

DATE	SOLIDS, DISSOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	SOLIDS, VOLATILE IN BOTTOM MATERIAL (MG/KG)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT												
12...	8.1	2	--	.01	.00	.00	.15	.19	.15	.00	.19	.05
MAR												
20...	24.6	--	--	.07	--	--	--	--	.84	.56	.28	.05
AUG												
07...	2.6	--	--	.04	--	.02	--	.56	--	--	.58	.01
SEP												
28...	12.3	--	39300	.05	.01	.02	.16	.43	.17	.00	.45	.03

DATE	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	PHYTOPLANKTON, TOTAL (CELLS PER ML)	INVERTEBRATES, BENTHIC WET WT. (G/SQ METER)	BIOMASS CHLOROPHYLL RATIO PLANKTON (UNITS)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT											
12...	.03	.02	.06	870	3.1	--	--	--	4	.12	--
MAR											
20...	--	.01	.03	--	--	12350	.810	.000	52	5.7	92
AUG											
07...	.01	.01	.03	220	2.6	464400	.292	.066	14	.19	--
SEP											
28...	.01	.01	.03	190	.4	49380	.081	.000	24	1.3	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

09255000 SAVERY CREEK AT UPPER STATION, NEAR SAVERY, WY (LAT 41 13 05 LONG 107 22 18)--Continued

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ALUMINUM, RECOV. FM BOTTOM MATERIAL (UG/G)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)
OCT 12...	1230	10	--	4	100	30	--	--	0
MAR 20...	1500	--	--	--	--	--	1	1	0
AUG 07...	1020	--	--	--	--	30	--	--	--
SEP 28...	1046	--	12000	--	--	30	1	--	0

DATE	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)
OCT 12...	--	10	--	--	7	--	20	--	--
MAR 20...	--	--	6	6	0	--	40	8	6
AUG 07...	--	--	--	--	--	--	20	--	--
SEP 28...	2	--	1	--	1	8	50	3	--

DATE	LEAD, DISSOLVED (UG/L AS PB)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	MOLYBDENUM, RECOV. FM BOTTOM MATERIAL (UG/G)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	ZINC, DISSOLVED (UG/L AS ZN)
OCT 12...	0	--	50	.0	2	--	0	0	20
MAR 20...	2	--	--	--	--	--	--	--	--
AUG 07...	--	--	2	--	--	--	--	--	--
SEP 28...	1	0	10	--	--	7	--	--	--

DATE	TIME	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DISSOLVED (PCI/L AS CS-137)	GRUSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DISSOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DISSOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DISSOLVED (UG/L AS U)
OCT 12...	1230	8.7	<.4	6.9	1.5	5.5	1.4	.21	3.4

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

09255000 SAVERY CREEK AT UPPER STATION, NEAR SAVERY, WY (LAT 41 13 05 LONG 107 22 18)--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO SEPTEMBER 1978

DATE	OCT 12,77		AUG 7,78		SEP 28,78	
TIME	1230		1020		1046	
TOTAL CELLS/ML	870		220		190	
DIVERSITY: DIVISION	1.5		0.7		1.2	
.CLASS	1.5		0.7		1.2	
..ORDER	1.9		1.2		1.6	
...FAMILY	2.7		3.3		1.6	
....GENUS	2.9		3.5		1.8	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)						
.CHLOROPHYCEAE						
..CHLOROCOCCALES						
...HYDRODICTYACEAE						
....PEDIASTRUM	--	-	4	2	--	-
...OOCYSTACEAE						
....ANKISTRODESMUS	7	1	11	5	43#	23
....OOCYSTIS	--	-	--	-	14	8
....SELENASTRUM	7	1	--	-	--	-
....TETRAEDRON	7	1	--	-	--	-
...SCENEDESMACEAE						
....ACTINASTRUM	54	6	--	-	--	-
....SCENEDESMUS	13	2	14	7	--	-
..VOLVOCALES						
...CHLAMYDOMONADACEAE						
....CHLAMYDOMONAS	7	1	--	-	--	-
..ZYGNEMATALES						
...DESMIDIACEAE						
....CLOSTERIUM	--	-	14	7	--	-
CHRYSOPHYTA						
.BACILLARIOPHYCEAE						
..CENTRALES						
...COSCINODISCACEAE						
....CYCLOTELLA	94	11	11	5	--	-
....MELOSIRA	7	1	--	-	100#	54
..PENNALES						
...ACHNANTHACEAE						
....ACHNANTHES	7	1	--	-	--	-
....COCCONEIS	13	2	39#	18	--	-
....RHOICOSPHENIA	--	-	4	2	--	-
...CYMBELLACEAE						
....CYMBELLA	--	-	4	2	--	-
....EPITHEMIA	13	2	28	13	--	-
...DIATOMACEAE						
....DIATOMA	7	1	11	5	--	-
...FRAGILARIACEAE						
....SYNEDRA	54	6	14	7	--	-
...GOMPHONEMATACEAE						
....GOMPHONEMA	13	2	14	7	--	-
...NAVICULACEAE						
....GYROSIGMA	7	1	--	-	--	-
....NAVICULA	34	4	39#	18	--	-
...NITZSCHIACEAE						
....NITZSCHIA	110	13	11	5	14	8
CRYPTOPHYTA (CRYPTOMONADS)						
.CRYPTOPHYCEAE						
..CRYPTOMONADALES						
...CRYPTOCHRYSIDACEAE						
....RHODOMONAS	13	2	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)						
.CYANOPHYCEAE						
..HORMOGONALES						
...NOSTOCACEAE						
....ANABAENA	390#	45	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)						
.EUGLENOPHYCEAE						
..EUGLENALES						
...EUGLENACEAE						
....EUGLENA	7	1	--	-	--	-
....TRACHELOMONAS	--	-	--	-	14	8

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

09255000 SAVERY CREEK AT UPPER STATION, NEAR SAVERY, WY (LAT 41 13 05 LONG 107 22 18)--Continued

OCT. 12, 1977
1230 HOURS

PERIPHYTON IDENTIFICATION

	_ORGANISM__NAME_______________	_COMMON__NAME_______
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..CHLOROCOCCALES	
	...OOCYSTACEAE	
	....ANKISTRODESMUS	
	...SCENEDESMACEAE	
	....SCENEDESMUS	
	..ULOTRICHALES	
	...MICROSPORACEAE	
	....MICROSPORA	
	..ZYGNEMATALES	
	...DESMIDIACEAE	PLACODERM DESMIDS
	....CLOSTERIUM	
	....COSMARIUM	
	...ZYGNEMATACEAE	
	....MOUGEOTIA	
	....SPIROGYRA	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
	....COCCONEIS	
	...CYMBELLACEAE	
	....AMPHORA	
	....CYMBELLA	
	....EPITHEMIA	
	....RHOPALODIA	
	...DIATOMACEAE	
	....DIATOMA	
	...FRAGILARIACEAE	
&	....FRAGILARIA	
&	....SYNEDRA	
	...NAVICULACEAE	NAVICULOID
	....CALONEIS	
	....GYROSIGMA	
	....NAVICULA	
	....NEIDIUM	
	....PINNULARIA	
	...NITZSCHIACEAE	
	....NITZSCHIA	
	...SURIRELLACEAE	
	....CAMPYLODISCUS	
	....CYMATOPLEURA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.CYANOPHYCEAE	
	..HORMOGONALES	FILAMENTOUS BL-GREEN
	...NOSTOCACEAE	
	....ANABAENA	
&	....NOSTOC	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

09255000 SAVERY CREEK AT UPPER STATION, NEAR SAVERY, WY (LAT 41 13 05 LONG 107 22 18)--Continued

AUG. 7, 1978
1020 HOURS

PERIPHYTON IDENTIFICATION

_ORGANISM__NAME_______________	_COMMON__NAME______
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..CHLOROCOCCALES	
...OOCYSTACEAE	
....ANKISTRODESMUS	
...SCENEDESMACEAE	
....SCENEDESMUS	
..TETRASPORALES	
...PALMELLACEAE	
....SPHAEROCYSTIS	
..ZYGNEMATALES	
...DESMIDIACEAE	PLACODERM DESMIDS
& ....CLOSTERIUM	
....COSMARIUM	
...ZYGNEMATACEAE	
....SPIROGYRA	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..CENTRALES	CENTRIC
...COSCINODISCACEAE	
....CYCLOTELLA	
..PENNALES	PENNATE
...ACHNANTHACEAE	
& ....COCCONEIS	
...CYMBELLACEAE	
& ....EPITHEMIA	
& ....RHOPALODIA	
...DIATOMACEAE	
....DIATOMA	
...EUNOTIACEAE	
....EUNOTIA	
...FRAGILARIACEAE	
....SYNEDRA	
...GOMPHONEMATACEAE	
& ....GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
....GYROSIGMA	
....NAVICULA	
....PINNULARIA	
....STAURONEIS	
...NITZSCHIACEAE	
....DENTICULA	
....NITZSCHIA	
CYANOPHYTA	BLUE-GREEN ALGAE
.CYANOPHYCEAE	
..CHROCCOCCALES	COCCOID BLUE-GREENS
...CHROCCOCCAEAE	
....AGMENELLUM	
..HORMOGONALES	FILAMENTOUS BL-GREEN
...NOSTOCACEAE	
....ANABAENA	
..CHROCCOCCALES	COCCOID BLUE-GREENS
...CHROCCOCCAEAE	
....GOMPHOSPHAERIA	
EUGLENOPHYTA	EUGLENOIDS
.EUGLENOPHYCEAE	
..EUGLENALES	
...EUGLENACEAE	
....TRACHELOMONAS	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: SLIDE MOUNTING, INVERTED MICROSCOPE

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

09255000 SAVERY CREEK AT UPPER STATION, NEAR SAVERY, WY (LAT 41 13 05 LONG 107 22 18)--Continued

SEP. 28, 1978
1046 HOURS

PERIPHYTON IDENTIFICATION

_ORGANISM__NAME_______________	_COMMON__NAME______
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..CHLOROCOCCALES	
...HYDRODICTYACEAE	
....PEDIASTRUM	
...SCENEDESMACEAE	
....SCENEDESMUS	
..CLADOPHORALES	
...CLADOPHORACEAE	
& ....CLADOPHORA	
..ZYGNEMATALES	
...DESMIDIACEAE	PLACODERM DESMIDS
....COSMARIUM	
...ZYGNEMATACEAE	
....SPIROGYRA	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...ACHNANTHACEAE	
& ....COCCONEIS	
...CYMBELLACEAE	
....EPITHEMIA	
....RHOPALODIA	
...DIATOMACEAE	
....DIATOMA	
...FRAGILARIACEAE	
....SYNEDRA	
...GOMPHONEMATACEAE	
....GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
....NAVICULA	
CYANOPHYTA	BLUE-GREEN ALGAE
.CYANOPHYCEAE	
..HORMOGONALES	FILAMENTOUS BL-GREEN
...NOSTOCACEAE	
....ANABAENA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
SAMPLING METHOD: PLASTIC SLIDES, TIMED SAMPLING INTERVAL
ANALYSIS METHOD: SLIDE MOUNTING, INVERTED MICROSCOPE

09255000 SAVERY CREEK AT UPPER STATION, NEAR SAVERY, WY (LAT 41 13 05 LONG 107 22 18)--Continued

PENTHIC INVERTEBRATE ANALYSES, OCTOBER 1977 TO SEPTEMBER 1978

DATE	UCT 12,77	AUG 7,78	SEP 28,78
TIME	1230	1020	1046
TOTAL COUNT	116	335	78
DIVERSITY: PHYLUM	0.2	0.0	0.0
.CLASS	0.2	0.0	0.0
..ORDER	2.5	1.6	1.7
...FAMILY	3.2	1.8	2.3
....GENUS	3.9	1.9	2.4
....GENUS-INSECTA	3.8	1.9	2.4
ORGANISM	COUNT	COUNT	COUNT
ANNELIDA			
.OLIGOCHAETA			
..UNKNOWN ORDER			
...UNKNOWN FAMILY			
....UNKNOWN GENUS #5	1	--	--
ARTHROPUDA (ARTHROPODS)			
.INSECTA			
..COLEOPTERA			
...ELMIDAE			
....DUBIRAPHIA	17	--	--
....HETERLIMNIUS	--	2	9
....OPTIOSERVUS	5	7	--
....STENELMIS	--	4	--
....ZAITZEVIA	6	--	--
..DIPTERA			
...CERATOPOGONIDAE			
....UNKNOWN GENUS	1	--	--
...CHIRONOMIDAE			
....BRILLIA	--	1	--
....CONCHAPELOPIA	--	--	2
....CRICOTOPUS	2	2	3
....CRYPTOCHIRONOMUS	2	--	--
....MICROTENDIPES	5	1	--
....PENTANEURA	3	--	--
....POTTHASTIA	1	--	--
....TRICHOCLADIUS	--	1	--
...RHAGIONIDAE			
....ATHERIX	9	3	--
...SIMULIIDAE			
....SIMULIUM	1	97	--
...TIPULIDAE			
....ANTOCHA	1	--	--
....HEXATOMA	2	--	--
....TIPULA	2	--	--
..EPHEMEROPTERA			
...BAETIDAE			
....BAETIS	--	182	27
...EPHEMERELLIDAE			
....EPHEMERELLA	1	2	22
...EPHEMERIDAE			
....EPHEMERA	1	--	--
...LEPTUPHLEBIIDAE			
....PARALEPTOPHLEBIA	8	--	--
..HEMIPTERA			
...CORIXIDAE			
....HESPEROCORIXA	30	--	--
..ODONATA			
...GOMPHIDAE			
....OPHIOGOMPHUS	1	--	--
..PLECOPTERA			
...CHLOROPERLIDAE			
....ALLOPERLA	--	--	11
...PTERONARCIDAE			
....PTERONARCELLA	--	3	--
..TRICHOPTERA			
...BRACHYCENTRIDAE			
....BRACHYCENTRUS	1	9	--
...HELICOPSYCHIDAE			
....HELICOPSYCHE	2	--	1
...HYDROPSYCHIDAE			
....CHEUMATOPSYCHE	1	21	3
...HYDROPTILIDAE			
....HYDROPTILA	3	--	--
...LEPTOCERIDAE			
....OECETIS	4	--	--
..EPHEMEROPTERA			
...LEPTUPHLEBIIDAE			
....CHOROTERPES	1	--	--
..PLECOPTERA			
...CHLOROPERLIDAE			
....ALLOPERLA	3	--	--
MOLLUSCA (MOLLUSCS)			
.GASTROPODA			
..BASOMMATOPHORA			
...PHYSIDAE			
....PHYSA	2	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

410816107202901 BIG SANDSTONE CREEK NEAR MOUTH, NEAR SAVERY, WY (LAT 41 08 16 LONG 107 20 29)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
OCT 13...	1320	1.6	280	8.5	8.0	3	11.0	130	15	36	10

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 105 DEG. C, DIS-SOLVED (MG/L)
OCT 13...	5.4	.2	1.3	140	1	120	23	1.1	.1	13	160

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)
OCT 13...	160	.22	.70	4	.01	.00	.00	.05	.02	.05

DATE	NITRO-GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	PHYTO-PLANK-TON, TOTAL (CELLS PER ML)	IN-VERTE-BRATES, BENTHIC WET WT. (G/SQ METER)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
OCT 13...	.03	.02	.00	.01	.00	.00	110	6.4	6	.03

DATE	TIME	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, DIS-SOLVED (UG/L AS CU)
OCT 13...	1320	10	1	100	20	0	0	0

DATE	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT 13...	110	9	30	.0	0	0	0	20

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

410816107202901 BIG SANDSTONE CREEK NEAR MOUTH, NEAR SAVERY, WY (LAT 41 08 16 LONG 107 20 29)--Continued

DATE	TIME	GROSS ALPHA, DIS-SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS-SOLVED (UG/L AS U)
OCT									
13...	1320	<2.1	<.4	2.9	<.4	2.3	<.4	.12	.5

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 13,77
TIME	1320
TOTAL CELLS/ML	110
DIVERSITY: DIVISION	0.9
.CLASS	1.2
..ORDER	1.2
...FAMILY	2.4
....GENUS	2.5

ORGANISM	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...OOCYSTACEAE		
....CHLORELLA	11	10
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...ACHNANTHACEAE		
....ACHNANTHES	11	10
....COCCONEIS	6	5
...CYMBELLACEAE		
....RHOPALODIA	6	5
...NAVICULACEAE		
....NAVICULA	11	10
...NITZSCHIACEAE		
....NITZSCHIA	50#	45
.CHRYSOPHYCEAE		
..CHRYSOMONADALES		
...PRYMNESIACEAE		
....CHRYSOCHROMULINA	6	5
CYANOPHYTA (BLUE-GREEN ALGAE)		
.CYANOPHYCEAE		
..CHROOCOCCALES		
...CHROOCOCCACEAE		
....ANACYSTIS	11	10

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

410816107202901 BIG SANDSTONE CREEK NEAR MOUTH, NEAR SAVERY, WY (LAT 41 08 16 LONG 107 20 29)--Continued

OCT. 13, 1977
1320 HOURS

PERIPHYTON IDENTIFICATION

_ORGANISM__NAME	_COMMON__NAME
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..OEDOGONIALES	
...OEDOGONIACEAE	
....OEDOGONIUM	
..ULOTRICHALES	
...MICROSPORACEAE	
....MICROSPORA	
..ZYGNEMATALES	
...ZYGNEMATACEAE	
& ....MOUGEOTIA	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...ACHNANTHACEAE	
....COCCONEIS	
...CYMBELLACEAE	
....CYMBELLA	
....EPITHEMIA	
....RHOPALODIA	
...FRAGILARIACEAE	
....SYNEDRA	
...GOMPHONEMATACEAE	
....GOMPHONEIS	
....GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
....AMPHIPLEURA	
....CALONEIS	
& ....NAVICULA	
...NITZSCHIACEAE	
& ....NITZSCHIA	
CYANOPHYTA	BLUE-GREEN ALGAE
.CYANOPHYCEAE	
..HORMOGONALES	FILAMENTOUS BL-GREEN
...NOSTOCACEAE	
....NOSTOC	
...OSCILLATORIACEAE	
....OSCILLATORIA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

410816107202901 BIG SANDSTONE CREEK NEAR MOUTH, NEAR SAVERY, WY (LAT 41 08 16 LONG 107 20 29)--Continued

BENTHIC INVERTEBRATE ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 13,77
TIME	1320
TOTAL COUNT	115
DIVERSITY: PHYLUM	0.3
.CLASS	0.5
..ORDER	2.5
...FAMILY	3.6
....GENUS	3.8
....GENUS-INSECTA	3.6

ORGANISM	COUNT
ARTHROPODA (ARTHROPODS)	
.INSECTA	
..COLEOPTERA	
...DRYOPIDAE	
....HELICHUS	5
...ELMIDAE	
....OPTIOSERVUS	33
....ZAITZEVIA	2
..DIPTERA	
...EMPIDIDAE	
....UNKNOWN GENUS	1
...PSYCHODIDAE	
....MARUINA	1
...RHAGIONIDAE	
....ATHERIX	3
...SIMULIIDAE	
....SIMULIUM	9
...TIPULIDAE	
....HEXATOMA	1
..EPHEMEROPTERA	
...EPHEMERELLIDAE	
....EPHEMERELLA	2
...HEPTAGENIIDAE	
....RHITHROGENA	4
...LEPTOPHLEBIIDAE	
....PARALEPTOPHLEBIA	5
...SIPHLONURIDAE	
....AMELETUS	1
..PLECOPTERA	
...UNKNOWN FAMILY	
....UNKNOWN GENUS	1
...PTERONARCIDAE	
....PTERONARCELLA	10
....PTERONARCYS	4
..TRICHOPTERA	
...BRACHYCENTRIDAE	
....BRACHYCENTRUS	11
...HYDROPSYCHIDAE	
....ARCTOPSYCHE	1
....CHEUMATOPSYCHE	2
...HYDROPTILIDAE	
....NEOTRICHIA	1
...LEPIDOSTOMATIDAE	
....LEPIDOSTOMA	6
...LEPTOCERIDAE	
....OECETIS	1
..PLECOPTERA	
...CHLOROPERLIDAE	
....ALLOPERLA	1
...PERLIDAE	
....ACRONEURIA	1
.ARACHNIDA	
..HYDRACARINA	
...UNKNOWN FAMILY	
....UNKNOWN GENUS #3	4
MOLLUSCA (MOLLUSCS)	
.GASTROPODA	
..BASOMMATOPHORA	
...ANCYLIDAE	
....FERRISSIA	1
...PHYSIDAE	
....PHYSA	4

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

410655107221801 LOCO CREEK NEAR SAVERY, WY (LAT 41 06 55 LONG 107 22 18)

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)
MAR 23...	1400	1.1	580	8.7	4.0	220	0	50	22	30

DATE	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
MAR 23...	.9	2.9	270	3	230	68	5.2	8.7	324

DATE	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)
MAR 23...	.44	.96	.31	.49	.04	.45	.28	.00	.00

DATE	TIME	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)
MAR 23...	1400	6	--	11	--	40	37	--
SEP 28...	1700	--	1	--	9	--	--	14

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

410601107223601 BIG GULCH NEAR SAVERY, WY (LAT 41 06 01 LONG 107 22 36)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
MAR 23...	1330	.75	480	8.4	4.5	190	1	55	13	13

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
MAR 23...	.4	3.3	230	1	190	16	4.2	16	236

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)
MAR 23...	.32	.48	.17	1.1	.53	.57	.07	.02	.06

DATE	TIME	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)
MAR 23...	1330	2	4	40	12

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

09256000 SAVERY CREEK NEAR SAVERY, WY (LAT 41 05 52 LONG 107 22 53)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)
OCT												
12...	1115	11	410	8.2	6.0	2	10.4	210	41	69	10	10
MAR												
20...	1610	41	260	8.4	4.0	20	10.6	190	44	56	11	8.5
AUG												
07...	0930	8.0	400	8.0	15.0	--	8.4	160	31	50	9.0	8.1
SEP												
28...	0921	22	380	8.2	9.0	1	8.3	190	31	61	8.4	8.6

DATE	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 105 DEG. C, DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)
OCT												
12...	.3	3.8	210	0	170	50	4.2	.2	23	280	274	.37
MAR												
20...	.3	3.4	170	1	140	46	3.9	--	16	--	252	.34
AUG												
07...	.3	3.0	160	0	130	59	6.0	.2	16	--	231	.31
SEP												
28...	.3	3.1	190	0	160	38	3.6	.2	18	--	235	.32

DATE	SOLIDS, DISSOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	SOLIDS, VOLATILE IN BOTTOM MATERIAL (MG/KG)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT												
12...	8.51	2	--	.02	.00	.01	.11	.10	.11	.00	.11	.06
MAR												
20...	27.9	--	--	5.0	--	--	--	--	2.1	.30	1.8	.07
AUG												
07...	4.99	--	--	.04	--	.05	--	.26	--	--	.31	.02
SEP												
28...	14.0	--	91000	.00	.01	.01	.18	.18	.19	.00	.19	.02

DATE	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	PHYTOPLANKTON, TOTAL (CELLS PER ML)	INVERTEBRATES, BENTHIC WET WT. (G/SQ METER)	BIOMASS CHLOROPHYLL RATIO PLANKTON (UNITS)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT											
12...	.00	.00	.00	2900	.7	--	--	--	4	.12	--
MAR											
20...	--	.01	.03	--	--	7692	1.56	.000	47	5.2	94
AUG											
07...	.07	.07	.21	640	4.4	--	--	--	28	.60	--
SEP											
28...	.01	.00	.00	190	1.9	160000	.025	.000	14	.83	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

09256000 SAVERY CREEK NEAR SAVERY, WY (LAT 41 05 52 LONG 107 22 53)--Continued

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ALUMINUM, RECOV. FM BOTTOM MATERIAL (UG/G)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)
OCT 12...	1115	20	--	2	100	30	--	--	17
MAR 20...	1610	--	--	--	--	--	2	2	0
AUG 07...	0930	--	--	--	--	50	--	--	--
SEP 28...	0921	--	6800	--	--	40	1	--	0

DATE	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)
OCT 12...	--	10	--	--	2	--	60	--	--
MAR 20...	--	--	7	6	1	--	20	10	7
AUG 07...	--	--	--	--	--	--	20	--	--
SEP 28...	0	--	1	--	0	170	80	3	--

DATE	LEAD, DISSOLVED (UG/L AS PB)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	MOLYBDENUM, RECOV. FM BOTTOM MATERIAL (UG/G)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	ZINC, DISSOLVED (UG/L AS ZN)
OCT 12...	71	--	20	.0	2	--	0	0	0
MAR 20...	3	--	--	--	--	--	--	--	--
AUG 07...	--	--	2	--	--	--	--	--	--
SEP 28...	2	0	20	--	--	7	--	--	--

DATE	TIME	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DISSOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DISSOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DISSOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DISSOLVED (UG/L AS U)
OCT 12...	1115	14	<.4	7.0	1.2	5.8	1.1	.08	2.7

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING
WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
GREEN RIVER BASIN
09256000 SAVERY CREEK NEAR SAVERY, WY (LAT 41 05 52 LONG 107 22 53)--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO SEPTEMBER 1978

DATE	OCT 12,77	AUG 7,78	SEP 28,78
TIME	1130	0930	0921
TOTAL CELLS/ML	2900	640	190
DIVERSITY: DIVISION	1.3	1.0	0.9
.CLASS	1.3	1.0	0.9
..ORDER	1.5	1.3	1.1
...FAMILY	2.8	2.3	2.2
....GENUS	3.0	2.3	2.2

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)						
.CHLOROPHYCEAE						
..CHLOROCOCCALES						
...CHARACIACEAE						
....CHARACIUM	--	-	--	-	14	8
...OOCYSTACEAE						
....ANKISTRODESMUS	--	-	71	11	86#	46
...SCENEDESMACEAE						
....SCENEDESMUS	100	4	210#	33	29#	15
..OEDOGONIALES						
...OEDOGONIACEAE						
....OEDOGONIUM	30	1	--	-	--	-
..VOLVOCALES						
...PHACOTACEAE						
....PHACOTUS	20	1	--	-	--	-
..ZYGNEMATALES						
...ZYGNEMATACEAE						
....MOUGEOTIA	*	0	--	-	--	-
CHRYSOPHYTA						
.BACILLARIOPHYCEAE						
..CENTRALES						
...COSCINODISCACEAE						
....CYCLOTELLA	*	0	36	6	14	8
..PENNALES						
...ACHNANTHACEAE						
....COCCONEIS	--	-	110#	17	--	-
...CYMBELLACEAE						
....AMPHORA	*	0	--	-	--	-
....EPITHEMIA	70	2	--	-	14	8
....RHOPALODIA	40	1	--	-	--	-
...EUNOTIACEAE						
....EUNOTIA	*	0	--	-	--	-
...FRAGILARIACEAE						
....FRAGILARIA	160	6	--	-	--	-
....SYNEDRA	100	4	--	-	--	-
...GOMPHONEMATACEAE						
....GOMPHONEMA	20	1	--	-	--	-
...NAVICULACEAE						
....GYROSIGMA	*	0	--	-	--	-
....NAVICULA	240	8	36	6	--	-
....PINNULARIA	*	0	--	-	--	-
...NITZSCHIACEAE						
....NITZSCHIA	210	7	180#	28	29#	15
...SURIRELLACEAE						
....SURIRELLA	30	1	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)						
.CRYPTOPHYCEAE						
..CRYPTOMONADALES						
...CRYPTO,ONADACEAE						
....CRYPTOMONAS	*	0	--	-	--	-
...CRYPTOCHRYSIDACEAE						
....RHODOMONAS	*	0	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)						
.CYANOPHYCEAE						
..CHROOCOCCALES						
...CHROOCOCCACEAE						
....AGMENELLUM	80	3	--	-	--	-
..HORMOGONALES						
...NOSTOCACEAE						
....ANABAENA	1100#	40	--	-	--	-
...OSCILLATORIACEAE						
....OSCILLATORIA	520#	18	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)						
.EUGLENOPHYCEAE						
..EUGLENALES						
...EUGLENACEAE						
....PHACUS	*	0	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

GREEN RIVER BASIN

09256000 SAVERY CREEK NEAR SAVERY, WY (LAT 41 05 52 LONG 107 22 53)--Continued

OCT. 12. 1977
1130 HOURS

PERIPHYTON IDENTIFICATION

ORGANISM NAME	COMMON NAME
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..CHLOROCOCCALES	
...SCENEDESMACEAE	
....ACTINASTRUM	
....SCENEDESMUS	
..CLADOPHORALES	
...CLADOPHORACEAE	
& ....CLADOPHORA	
..TETRASPORALES	
...PALMELLACEAE	
....SPHAEROCYSTIS	
..ULOTRICHALES	
...MICROSPORACEAE	
....MICROSPORA	
..ZYGNEMATALES	
...DESMIDIACEAE	PLACODERM DESMIDS
....COSMARIUM	
...ZYGNEMATACEAE	
& ....MOUGEOTIA	
& ....SPIROGYRA	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..CENTRALES	CENTRIC
...COSCINODISCACEAE	
....CYCLOTELLA	
..PENNALES	PENNATE
...ACHNANTHACEAE	
....COCCONEIS	
....RHOICOSPHENIA	
...CYMBELLACEAE	
....AMPHORA	
....CYMBELLA	
....EPITHEMIA	
....RHOPALODIA	
...DIATOMACEAE	
& ....DIATOMA	
...FRAGILARIACEAE	
....FRAGILARIA	
& ....SYNEDRA	
...GOMPHONEMATACEAE	
....GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
....AMPHIPLEURA	
....CALONEIS	
....GYROSIGMA	
& ....NAVICULA	
...NITZSCHIACEAE	
& ....NITZSCHIA	
...SURIRELLACEAE	
....CYMATOPLEURA	
CYANOPHYTA	BLUE-GREEN ALGAE
.CYANOPHYCEAE	
..HORMOGONALES	FILAMENTOUS BL-GREEN
...NOSTOCACEAE	
....ANABAENA	
...RIVULARIACEAE	
....CALOTHRIX	
EUGLENOPHYTA	EUGLENOIDS
.EUGLENOPHYCEAE	
..EUGLENALES	
...EUGLENACEAE	
....TRACHELOMONAS	

NOTE: & - ESTIMATED DOMINANT ORGANISM: NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

09256000 SAVERY CREEK NEAR SAVERY, WY (LAT 41 05 52 LONG 107 22 53)--Continued

AUG. 7, 1978
0930 HOURS

PERIPHYTON IDENTIFICATION

_ORGANISM__NAME_______________	_COMMON__NAME______
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..ZYGNEMATALES	
...DESMIDIACEAE	PLACODERM DESMIDS
....CLOSTERIUM	
....COSMARIUM	
...ZYGNEMATACEAE	
& ....SPIROGYRA	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...ACHNANTHACEAE	
....COCCONEIS	
...CYMBELLACEAE	
& ....EPITHEMIA	
....RHOPALODIA	
...EUNOTIACEAE	
....EUNOTIA	
...FRAGILARIACEAE	
....SYNEDRA	
...GOMPHONEMATACEAE	
....GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
....GYROSIGMA	
CYANOPHYTA	BLUE-GREEN ALGAE
.CYANOPHYCEAE	
..CHROCCOCCALES	COCCOID BLUE-GREENS
...CHROCCOCCAEAE	
....AGMENELLUM	
..HORMOGONALES	FILAMENTOUS BL-GREEN
...NOSTOCACEAE	
....ANABAENA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: SLIDE MOUNTING, INVERTED MICROSCOPE

09256000 SAVERY CREEK NEAR SAVERY, WY (LAT 41 05 52 LONG 107 22 53)--Continued

SEP. 28, 1978
0921 HOURS

PERIPHYTON IDENTIFICATION

ORGANISM NAME	COMMON NAME
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..CHLOROCOCCALES	
...OOCYSTACEAE	
....ANKISTRODESMUS	
....OOCYSTIS	
...SCENEDESMACEAE	
....SCENEDESMUS	
..VOLVOCALES	
...CHLAMYDOMONADACEAE	
....CARTERIA	
..ZYGNEMATALES	
...DESMIDIACEAE	PLACODERM DESMIDS
....CLOSTERIUM	
....COSMARIUM	
...ZYGNEMATACEAE	
....MOUGEOTIA	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..CENTRALES	CENTRIC
...COSCINODISCACEAE	
....CYCLOTELLA	
..PENNALES	PENNATE
...ACHNANTHACEAE	
....ACHNANTHES	
....COCCONEIS	
....RHOICOSPHENIA	
...CYMBELLACEAE	
....CYMBELLA	
& ....EPITHEMIA	
....RHOPALODIA	
...DIATOMACEAE	
....DIATOMA	
...FRAGILARIACEAE	
& ....SYNEDRA	
...GOMPHONEMATACEAE	
....GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
& ....NAVICULA	
....PINNULARIA	
...NITZSCHIACEAE	
& ....NITZSCHIA	
...SURIRELLACEAE	
....SURIRELLA	
CYANOPHYTA	BLUE-GREEN ALGAE
.CYANOPHYCEAE	
..CHROOCOCCALES	COCCOID BLUE-GREENS
...CHROOCOCCACEAE	
....ANACYSTIS	
..HORMOGONALES	FILAMENTOUS BL-GREEN
...OSCILLATORIACEAE	
....OSCILLATORIA	
EUGLENOPHYTA	EUGLENOIDS
.EUGLENOPHYCEAE	
..EUGLENALES	
...EUGLENACEAE	
....TRACHELOMONAS	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
SAMPLING METHOD: PLASTIC SLIDES, TIMED SAMPLING INTERVAL
ANALYSIS METHOD: SLIDE MOUNTING, INVERTED MICROSCOPE

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING
WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
GREEN RIVER BASIN
09256000 SAVERY CREEK NEAR SAVERY, WY (LAT 41 05 52 LONG 107 22 53)--Continued

BENTHIC INVERTEBRATE ANALYSES, OCTOBER 1977 TO SEPTEMBER 1978

DATE	OCT 12,77	AUG 7,78	SEP 28,78
TIME	1130	0930	0921
TOTAL COUNT	115	252	117
DIVERSITY: PHYLUM	0.2	0.0	0.0
.CLASS	0.2	0.0	0.0
..ORDER	1.3	1.0	1.8
...FAMILY	1.4	1.5	2.4
....GENUS	2.8	1.6	2.5
....GENUS-INSECTA	2.7	1.6	2.5
ORGANISM	COUNT	COUNT	COUNT
ARTHROPODA (ARTHROPODS)			
.INSECTA			
..COLEOPTERA			
...ELMIDAE			
....DUBIRAPHIA	1	--	2
....HETERLIMNIUS	--	6	9
....OPTIOSERVUS	12	5	--
....ZAITZEVIA	8	--	--
..DIPTERA			
...CERATOPOGONIDAE			
....UNKNOWN GENUS	1	--	--
...CHIRONOMIDAE			
....CHIRONOMUS	6	--	--
....CONCHAPELOPIA	--	--	1
....CRICOTOPUS	--	7	--
....CRYPTOCHIRONOMUS	12	--	--
....PENTANEURA	10	--	--
....POLYPEDILUM	--	1	--
....STICTOCHIRONOMUS	3	--	--
....TANYTARSUS	51	--	--
....THIENEMANNIELLA	--	1	--
...RHAGIONIDAE			
....ATHERIX	--	3	--
...SIMULIIDAE			
....SIMULIUM	--	1	--
..EPHEMEROPTERA			
...BAETIDAE			
....APOBAETIS	--	--	1
....BAETIS	--	191	--
...CAENIDAE			
....CAENIS	--	7	57
...EPHEMERELLIDAE			
....EPHEMERELLA	--	3	13
...LEPTOPHLEBIIDAE			
....PARALEPTOPHLEBIA	1	--	--
..HEMIPTERA			
...CORIXIDAE			
....HESPEROCORIXA	4	--	--
..ODONATA			
...GOMPHIDAE			
....UNKNOWN GENUS	--	--	6
..PLECOPTERA			
...CHLOROPERLIDAE			
....PARAPERLA	--	--	15
...PERLIDAE			
....ACRONEURIA	--	1	--
...PTERONARCIDAE			
....PTERONARCELLA	--	--	1
..TRICHOPTERA			
...BRACHYCENTRIDAE			
....BRACHYCENTRUS	--	11	1
...HYDROPSYCHIDAE			
....ARCTOPSYCHE	--	2	--
....CHEUMATOPSYCHE	--	13	3
...HYDROPTILIDAE			
....MAYATRICHIA	--	--	1
...LIMNEPHILIDAE			
....APATANIA	--	--	1
..PLECOPTERA			
...CHLOROPERLIDAE			
....ALLOPERLA	3	--	--
..TRICHOPTERA			
...HYDROPSYCHIDAE			
....HYDROPSYCHE	--	--	6
MOLLUSCA (MOLLUSCS)			
.GASTROPODA			
..BASOMMATOPHORA			
...PHYSIDAE			
....PHYSA	3	--	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING
WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
GREEN RIVER BASIN

09256500 SAVERY CREEK AT SAVERY, WY (LAT 41 01 20 LONG 107 26 50)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)
OCT											
11...	1710	15	450	8.7	7.0	2	9.7	200	21	63	11

DATE	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 105 DEG. C, DISSOLVED (MG/L)
OCT											
11...	16	.5	3.7	220	1	180	52	4.3	.3	22	290

DATE	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)
OCT										
11...	283	.38	11	4	.00	.00	.01	.19	.21	.19

DATE	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	PHYTOPLANKTON, TOTAL (CELLS PER ML)	INVERTEBRATES, BENTHIC WET WT. (G/SQ METER)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)
OCT										
11...	.00	.22	.00	.00	.00	.00	1800	.4	7	.29

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BORON, DISSOLVED (UG/L AS B)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)
OCT								
11...	1710	20	2	600	30	6	4	4

DATE	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	ZINC, DISSOLVED (UG/L AS ZN)
OCT								
11...	110	44	30	.0	3	0	0	20

DATE	TIME	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DISSOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DISSOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DISSOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DISSOLVED (UG/L AS U)
OCT									
11...	1710	<4.8	<.4	8.0	.8	6.5	.7	.09	2.2

GREEN RIVER BASIN

09256500 SAVERY CREEK AT SAVERY, WY (LAT 41 01 20 LONG 107 26 50)--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 11,77
TIME	1710
TOTAL CELLS/ML	1800
DIVERSITY: DIVISION	1.2
.CLASS	1.2
..ORDER	1.7
...FAMILY	2.6
....GENUS	2.7

ORGANISM	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...CHARACIACEAE		
....SCHROEDERIA	*	0
...OOCYSTACEAE		
....OOCYSTIS	*	0
....TREUBARIA	*	0
...SCENEDESMACEAE		
....SCENEDESMUS	89	5
..VOLVOCALES		
...CHLAMYDOMONADACEAE		
....CHLAMYDOMONAS	15	1
...PHACOTACEAE		
....COCCOMONAS	22	1
....PHACOTUS	*	0
..ZYGNEMATALES		
...DESMIDIACEAE		
....COSMARIUM	*	0
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..CENTRALES		
...COSCINODISCACEAE		
....CYCLOTELLA	15	1
..PENNALES		
...CYMBELLACEAE		
....CYMBELLA	*	0
....EPITHEMIA	15	1
...DIATOMACEAE		
....DIATOMA	15	1
...FRAGILARIACEAE		
....FRAGILARIA	110	6
....SYNEDRA	15	1
...GOMPHONEMATACEAE		
....GOMPHONEMA	22	1
...NAVICULACEAE		
....GYROSIGMA	15	1
....NAVICULA	66	4
...NITZSCHIACEAE		
....NITZSCHIA	15	1
CRYPTOPHYTA (CRYPTOMONADS)		
.CRYPTOPHYCEAE		
..CRYPTOMONADALES		
...CRYPTO,ONADACEAE		
....CRYPTOMONAS	*	0
CYANOPHYTA (BLUE-GREEN ALGAE)		
.CYANOPHYCEAE		
..CHROOCOCCALES		
...CHROOCOCCACEAE		
....AGMENELLUM	66	4
..HORMOGONALES		
...NOSTOCACEAE		
....ANABAENA	280#	15
...OSCILLATORIACEAE		
....OSCILLATORIA	940#	51
..CHROOCOCCALES		
...CHROOCOCCACEAE		
....GOMPHOSPHAERIA	66	4
EUGLENOPHYTA (EUGLENOIDS)		
.EUGLENOPHYCEAE		
..EUGLENALES		
...EUGLENACEAE		
....PHACUS	*	0
....TRACHELOMONAS	15	1

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

09256500 SAVERY CREEK AT SAVERY, WY (LAT 41 01 20 LONG 107 26 50)--Continued

OCT. 11, 1977
1710 HOURS

PERIPHYTON IDENTIFICATION

	_ORGANISM__NAME_______________	_COMMON__NAME_______
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..CHLOROCOCCALES	
	...HYDRODICTYACEAE	
	....PEDIASTRUM	
	...SCENEDESMACEAE	
	....SCENEDESMUS	
	..OEDOGONIALES	
	...OEDOGONIACEAE	
	....OEDOGONIUM	
	..ULOTRICHALES	
	...ULOTRICHACEAE	
&	....BINUCLEARIA	
	..ZYGNEMATALES	
	...DESMIDIACEAE	PLACODERM DESMIDS
	....COSMARIUM	
	...ZYGNEMATACEAE	
&	....SPIROGYRA	
	....ZYGNEMA	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
	....COCCONEIS	
	....RHOICOSPHENIA	
	...CYMBELLACEAE	
	....EPITHEMIA	
	....RHOPALODIA	
	...DIATOMACEAE	
	....DIATOMA	
	...FRAGILARIACEAE	
	....FRAGILARIA	
&	....SYNEDRA	
	...GOMPHONEMATACEAE	
	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
	....CALONEIS	
	....NAVICULA	
	...NITZSCHIACEAE	
	....CYLINDROTHECA	
	....NITZSCHIA	
	...SURIRELLACEAE	
	....CYMATOPLEURA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.CYANOPHYCEAE	
	..HORMOGONALES	FILAMENTOUS BL-GREEN
	...OSCILLATORIACEAE	
	....LYNGBYA	
	....OSCILLATORIA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

09256500 SAVERY CREEK AT SAVERY, WY (LAT 41 01 20 LONG 107 26 50)--Continued

BENTHIC INVERTEBRATE ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 11,77
TIME	1710
TOTAL COUNT	70
DIVERSITY: PHYLUM	0.1
.CLASS	0.1
..ORDER	0.8
...FAMILY	1.3
....GENUS	1.6
....GENUS-INSECTA	1.5

ORGANISM	COUNT
ANNELIDA	
.OLIGOCHAETA	
..PLESIOPORA	
...NAIDIDAE	
....NAIS	1
ARTHROPODA (ARTHROPODS)	
.INSECTA	
..COLEOPTERA	
...ELMIDAE	
....OPTIOSERVUS	6
..DIPTERA	
...CHIRONOMIDAE	
....CRICOTOPUS	1
....MICROPSECTRA	3
....ORTHOCLADIUS	1
....PENTANEURA	2
...SIMULIIDAE	
....SIMULIUM	52
..EPHEMEROPTERA	
...BAETIDAE	
....PARACLOEODES	1
....PSEUDOCLOEON	1
..PLECOPTERA	
...UNKNOWN FAMILY	
....UNKNOWN GENUS	1
..DIPTERA	
...CHIRONOMIDAE	
....LIMNOCHIRONOMUS	1

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

410345107303701 COTTONWOOD CREEK NEAR DIXON, WY (LAT 41 03 45 LONG 107 30 37)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACU3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)
OCT											
14...	1500	.04	1400	8.8	11.0	2	9.6	400	0	84	47

DATE	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	PUTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 105 DEG. C, DISSOLVED (MG/L)
OCT											
14...	260	5.6	7.4	550	0	450	440	12	3.5	8.2	1100

DATE	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)
OCT										
14...	1130	1.54	.12	9	.01	.00	.00	.23	.21	.23

DATE	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	PHYTOPLANKTON, TOTAL (CELLS PER ML)	INVERTEBRATES, BENTHIC WET WT. (G/SQ METER)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)
OCT										
14...	.02	.21	.03	.02	.02	.06	440	.0	4	.00

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BORON, DISSOLVED (UG/L AS B)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)
OCT								
14...	1500	0	1	0	680	0	0	0

DATE	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	ZINC, DISSOLVED (UG/L AS ZN)
OCT								
14...	20	0	10	.0	3	0	0	10

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

410345107303701 COTTONWOOD CREEK NEAR DIXON, WY (LAT 41 03 45 LONG 107 30 37)--Continued

DATE	TIME	GROSS ALPHA, DIS-SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RA-226, DIS-SOLVED, PLAN-CHET COUNT (PCI/L)	URANIUM NATURAL DIS-SOLVED (UG/L AS U)
OCT									
14...	1500	18	<.4	12	1.0	11	1.1	<.1	6.1

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 14,77
TIME	1500
TOTAL CELLS/ML	440
DIVERSITY: DIVISION	0.8
.CLASS	0.8
..ORDER	1.0
...FAMILY	1.1
....GENUS	1.2

ORGANISM	CELLS /ML	PER-CENT
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..CENTRALES		
...COSCINODISCACEAE		
....CYCLOTELLA	37	8
....MELOSIRA	15	3
..PENNALES		
...FRAGILARIACEAE		
....SYNEDRA	7	2
...NITZSCHIACEAE		
....NITZSCHIA	30	7
CRYPTOPHYTA (CRYPTOMONADS)		
.CRYPTOPHYCEAE		
..CRYPTOMONADALES		
...CRYPTO,ONADACEAE		
....CHILOMONAS	7	2
CYANOPHYTA (BLUE-GREEN ALGAE)		
.CYANOPHYCEAE		
..HORMOGONALES		
...OSCILLATORIACEAE		
....OSCILLATORIA	340#	78

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

GREEN RIVER BASIN

410345107303701 COTTONWOOD CREEK NEAR DIXON, WY (LAT 41 03 45 LONG 107 30 37)--Continued

OCT. 14. 1977
1500 HOURS

PERIPHYTON IDENTIFICATION

_ORGANISM__NAME_______________	_COMMON__NAME_______
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...NAVICULACEAE	NAVICULOID
....CALONEIS	
....NAVICULA	
...NITZSCHIACEAE	
....CYLINDROTHECA	
....NITZSCHIA	
CYANOPHYTA	BLUE-GREEN ALGAE
.CYANOPHYCEAE	
..HORMOGONALES	FILAMENTOUS BL-GREEN
...OSCILLATORIACEAE	
....OSCILLATORIA	

NOTE: ANALYSIS METHOD: PERMANENT SLIDE MOUNTING. INVERTED MICROSCOPE

BENTHIC INVERTEBRATE ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 14,77
TIME	1500
TOTAL COUNT	4
DIVERSITY: PHYLUM	0.0
.CLASS	0.0
..ORDER	0.8
...FAMILY	1.5
....GENUS	1.5
....GENUS-INSECTA	1.5

ORGANISM	COUNT
ARTHROPODA (ARTHROPODS)	
.INSECTA	
..EPHEMEROPTERA	
...BAETIDAE	
....UNKNOWN GENUS	1
...EPHEMERELLIDAE	
....EPHEMERELLA	2
..PLECOPTERA	
...CHLOROPERLIDAE	
....UNKNOWN GENUS	1

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

410329107305401 COTTONWOOD CREEK ABOVE DIXON, WY (LAT 41 03 29 LONG 107 30 54)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO
MAR 23...	1700	.20	7.0	460	130	100	50	170	3.5

DATE	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)
MAR 23...	6.8	390	5	330	460	14	7.2	1010	1.37

DATE	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)
MAR 23...	.55	.15	1.3	.69	.61	.13	.00	.00

DATE	TIME	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)
MAR 23...	1700	1	1	0	3	3	0	40	5	5	0

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

412614107452101 MUDDY CREEK NEAR DAD, WY (LAT 41 26 14 LONG 107 45 21)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)
MAR 21...	1000	13	685	7.6	.5	300	10.4	180	70	41	18

DATE	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
MAR 21...	61	2.0	3.5	130	0	110	180	5.8	6.8	382

DATE	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	IRON, DISSOLVED (UG/L AS FE)
MAR 21...	.52	13	.47	1.7	.91	.79	.38	.00	.00	200

DATE	TIME	TEMPERATURE (DEG C)	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM
MAR 21...	1000	.5	13	568	20	81	92	100

DATE	TIME	TEMPERATURE (DEG C)	STREAMFLOW, INSTANTANEOUS (CFS)	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM
MAR 21...	1000	.5	13	25	33	56	68

DATE	BED MAT. FALL DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM
MAR 21...	74	79	85	89	96	100

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

411951107313801 DEEP GULCH NEAR DAD, WY (LAT 41 19 51 LONG 107 31 38)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
MAR 24...	0940	.50	1670	8.3	.0	790	420	120	120	120

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
MAR 24...	1.9	8.1	450	0	370	590	17	9.4	1210

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)
MAR 24...	1.65	1.6	.33	.61	.05	.56	.06	.01	.03

DATE	TIME	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)
MAR 24...	0940	100	1	200	4	10	3	340

DATE	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO)	SELE-NIUM, TOTAL (UG/L AS SE)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)
MAR 24...	40	22	230	.0	3	4	1	0

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

09258900 MUDDY CREEK ABOVE BAGGS, WY (LAT 41 07 55 LONG 107 38 45)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)
MAR											
21...	1330	110	600	8.7	6.0	2500	11.5	100	0	22	11

DATE	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACU3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM UF CONSTITUENTS, DISSOLVED (MG/L)
MAR										
21...	100	4.3	3.0	180	1	150	150	13	5.6	396

DATE	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHU, DISSOLVED (MG/L AS PO4)	IRON, DISSOLVED (UG/L AS FE)
MAR										
21...	.54	118	.28	8.8	6.0	2.8	6.3	.01	.03	180

DATE	TIME	TEMPERATURE (DEG C)	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM
MAR									
21...	1330	6.0	110	12200	3620	59	84	96	100

DATE	TIME	TEMPERATURE (DEG C)	STREAMFLOW, INSTANTANEOUS (CFS)	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM	BED MAT. FALL DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINEH THAN 8.00 MM
MAR											
21...	1330	6.0	110	22	31	68	96	98	98	99	100

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

410740107392001 COTTONWOOD CREEK NEAR BAGGS, WY (LAT 41 07 40 LONG 107 39 20)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
MAR											
21...	1630	60	200	8.7	6.0	1500	8.5	47	0	14	2.9

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
MAR										
21...	27	1.7	2.0	77	0	63	44	2.0	3.0	134

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	IRON, DIS-SOLVED (UG/L AS FE)
MAR										
21...	.18	21	.25	3.7	2.7	.96	1.7	.01	.03	200

DATE	TIME	TEMPER-ATURE (DEG C)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM
MAR								
21...	1630	6.0	60	4790	776	90	95	100

DATE	TIME	TEMPER-ATURE (DEG C)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	NUMBER OF SAM-PLING POINTS	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM
MAR							
21...	1630	6.0	60	6	54	71	82

DATE	BED MAT. FALL DIAM. % FINER THAN .500 MM	BED MAT. FALL DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM
MAR							
21...	88	89	91	93	96	99	100

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING
WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
GREEN RIVER BASIN
410154107464801 POISON DRAW NEAR BAGGS, WY (LAT 41 01 54 LONG 107 46 48)

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)
MAR 20...	1430	400	8.5	9.0	6000	9.1	76	9	24	4.0

DATE	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 105 DEG. C, DISSOLVED (MG/L)
MAR 20...	39	1.9	2.6	80	1	67	92	5.6	5.4	270

DATE	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)
MAR 20...	216	.29	32000	.58	17	16	.89	11	.02	.06

DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)
MAR 20...	1430	20	4000	0	260	350	230000	140

DATE	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	SELENIUM, TOTAL (UG/L AS SE)	SILVER, TOTAL RECOVERABLE (UG/L AS AG)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)
MAR 20...	6	11000	.0	8	6	3	1200

DATE	TIME	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DISSOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DISSOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DISSOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DISSOLVED (UG/L AS U)
MAR 20...	1430	4.7	2600	6.3	1100	5.6	950	.33	4.5

DATE	TIME	TEMPERATURE (DEG C)	SEDIMENT, SUSPENDED (MG/L)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM
MAR 20...	1430	9.0	1700	65	88	100

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

411134108102002 SAND CREEK ABOVE SKULL CREEK, NEAR PREHISTORIC RIM, WY (LAT 41 11 34 LONG 108 10 20)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. FALL DIAM. % FINER THAN .500 MM
MAR												
21...	0900	15	.0	1500	5940	241	72	78	78	81	89	100

411134108102001 SKULL CREEK TRIBUTARY TO SAND CREEK, WY (LAT 41 11 34 LONG 108 10 20)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
MAR											
21...	0900	E25	425	9.4	.0	2000	11.1	8	0	2.2	.5

E-Estimate.

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
MAR										
21...	98	16	.6	200	12	180	33	2.9	10	261

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	IRON, DIS-SOLVED (UG/L AS FE)
MAR										
21...	.36	17	.64	2.0	.40	1.6	4.9	.03	.09	130

DATE	TIME	TEMPER-ATURE (DEG C)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM
MAR								
21...	0900	.0	E25	1090	74	72	96	100

E-Estimate.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

411036108073001 SAND CREEK NEAR PREHISTORIC RIM, WY (LAT 41 10 36 LONG 108 07 30)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
MAR 29...	1200	E1.5	520	8.8	15.0	2400	15	0	5.0	.6

E-Estimate.

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
MAR 29...	100	11	.9	180	1	150	21	46	15	279

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	IRON, DIS-SOLVED (UG/L AS FE)
MAR 29...	.38	1.1	.13	2.6	1.9	.72	2.8	.07	.21	120

DATE	TIME	TEMPER-ATURE (DEG C)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM
MAR 29...	1200	15.0	E1.5	5080	20	99	100

E-Estimate.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

410231107520001 RED CREEK TRIBUTARY TO SAND CREEK, NEAR BAGGS, WY (LAT 41 02 31 LONG 107 52 00)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)
MAR											
20...	1610	E150	470	8.8	9.5	6000	8.9	51	0	16	2.8
21...	1130	E10	1370	--	10.5	1500	--	140	26	44	7.4

E-Estimate.

DATE	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 105 DEG. C, DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
MAR											
20...	120	7.3	3.1	99	1	83	210	9.3	5.1	--	418
21...	230	8.5	3.0	140	0	110	390	100	5.3	870	851

DATE	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)
MAR										
20...	.57	169	--	.43	57	52	4.6	10	.02	.06
21...	1.16	23	4800	.46	4.3	2.6	1.7	2.9	.02	.06

DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)
MAR								
20...	1610	40	6000	11	160	260	180000	30
21...	1130	--	--	--	--	--	--	90

DATE	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	SELENIUM, TOTAL (UG/L AS SE)	SILVER, TOTAL RECOVERABLE (UG/L AS AG)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)
MAR							
20...	130	15000	.0	4	19	0	1100
21...	--	--	--	--	--	--	--

DATE	TIME	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DISSOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DISSOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DISSOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DISSOLVED (UG/L AS U)
MAR									
21...	1130	24	280	7.5	190	6.8	170	.13	6.5

DATE	TIME	TEMPERATURE (DEG C)	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM
MAR								
21...	1130	10.5	E10	1100	30	77	98	100

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

410229107521601 SAND CREEK NEAR BAGGS, WY (LAT 41 02 29 LONG 107 52 16)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
MAR											
20...	1550	101	530	8.9	11.0	2500	8.6	13	0	4.2	.5
29...	1240	E5.0	1850	8.6	17.5	1800	--	110	0	33	6.6

E-Estimate.

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 105 DEG. C, DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
MAR											
20...	120	15	.6	160	3	140	86	38	10	430	343
29...	380	16	1.7	230	2	190	380	230	11	--	1160

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)
MAR										
20...	.47	93	8900	.39	3.9	.00	4.0	5.5	.03	.09
29...	1.58	15	--	.60	4.7	4.4	.28	3.6	.05	.15

DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)
MAR								
20...	1550	30	2500	0	230	47	190000	120
29...	1240	--	--	--	--	--	--	80

DATE	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO)	SELE-NIUM, TOTAL (UG/L AS SE)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)
MAR							
20...	110	5500	.0	3	20	0	660
29...	--	--	--	--	--	--	--

DATE	TIME	GROSS ALPHA, DIS-SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS-SOLVED (UG/L AS U)
MAR									
20...	1550	30	680	9.1	370	7.8	340	.06	13

DATE	TIME	TEMPER-ATURE (DEG C)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM
MAR										
20...	1550	11.0	101	44500	12100	52	77	94	99	100
29...	1240	17.5	E5.0	4400	59	88	100	--	--	--

E-Estimate.

CARBON COUNTY

414650107254501. Local number, 21N 089W 22ada01.
LOCATION.--Lat 41°46'50", long 107°25'45", in NE¼SE¼NE¼ sec.22, T.21 N., R.89 W., Hydrologic Unit 14040200.
Owner: U.S. Bureau of Land Management.
AQUIFER.--Fort Union Formation.
WELL CHARACTERISTICS.--Drilled water-table well, diameter 4 in (10 cm), depth 156 ft (47.5 m), cased.
DATUM.--Altitude of land-surface datum is about 6,705 ft (2,044 m). Measuring point: Top of casing, 1.00 ft (0.30 m) above land-surface datum.
PERIOD OF RECORD.--July 1963, April 1965 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 35.95 ft (10.96 m) below land-surface datum, July 20, 1978; lowest, 42.64 ft (13.00 m) below land-surface datum, July 18, 1963.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	WATER LEVEL
JUN 18	36.32
JUL 20	35.95

LINCOLN COUNTY

415442110571801. Local number, 22N 119W 05cda01.
LOCATION.--Lat 41°54'42", long 110°57'18", in NE¼SE¼SW¼ sec.5, T.22 N., R.119 W., Hydrologic Unit 16010101.
Owner: Doyle Knouse.
AQUIFER.--Terrace deposits of Bear River.
WELL CHARACTERISTICS.--Drilled irrigation water-table well, diameter 12 in (30 cm), depth 250 ft (76.2 m), cased, perforated 40-250 ft (12.2-76.2 m).
DATUM.--Altitude of land-surface datum is about 6,227 ft (1,898 m). Measuring point: Top of west side of airline plug, 0.50 ft (0.15 m) above land-surface datum.
PERIOD OF RECORD.--April 1959, April 1962 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 29.26 ft (8.92 m) below land-surface datum, Aug. 26, 1975; lowest, 39.18 ft (11.94 m) below land-surface datum, Apr. 17, 1962.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	WATER LEVEL
NOV 1	39.11
MAR 6	38.35

415557110571502. Local number, 23N 119W 32bda02.
LOCATION.--Lat 41°55'57", long 110°57'15", in NE¼SE¼NW¼ sec.32, T.23 N., R.119 W., Hydrologic Unit 16010101.
Owner: Thornock Bros.
AQUIFER.--Terrace deposits of Bear River.
WELL CHARACTERISTICS.--Drilled irrigation water-table well, diameter 16 in (41 cm), depth 230 ft (70.1 m), cased.
DATUM.--Altitude of land-surface datum is about 6,211 ft (1,893 m). Measuring point: Top of casing, 0.40 ft (0.12 m) above land-surface datum.
PERIOD OF RECORD.--April 1962 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 12.48 ft (3.80 m) below land-surface datum, Aug. 9, 1972; lowest, 32.14 ft (9.80 m) below land-surface datum, Mar. 6, 1978.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	WATER LEVEL
NOV 1	29.93
MAR 6	32.14

420202110560201. Local number, 24N 119W 28aca01.
LOCATION.--Lat 42°02'02", long 110°56'02", in NE¼SW¼NE¼ sec.28, T.24 N., R.119 W., Hydrologic Unit 16010102.
Owner: Herman Teichert.
AQUIFER.--Terrace deposits of Bear River.
WELL CHARACTERISTICS.--Drilled irrigation water-table well, diameter 16 in (41 cm), depth 230 ft (70.1 m), cased, perforated 0-220 ft (0-67.1 m).
DATUM.--Altitude of land-surface datum is about 6,195 ft (1,888 m). Measuring point: Hole inside east side of pump shell, 0.20 ft (0.06 m) above land-surface datum.
PERIOD OF RECORD.--April 1962 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 9.44 ft (2.88 m) below land-surface datum, July 9, 1971; lowest, 20.87 ft (6.36 m) below land-surface datum, Jan. 3, 1977.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	WATER LEVEL
NOV 1	15.60
MAR 6	17.80

SUBLETTE COUNTY

423504110053001. Local number, 30N 111W 17aca01.
LOCATION.--Lat 42°35'04", long 110°05'30", in NE¼SW¼NE¼ sec.17, T.30 N., R.111 W., Hydrologic Unit 14040101.
Owner: Sublette County.
AQUIFER.--Wasatch Formation.
WELL CHARACTERISTICS.--Drilled public-service artesian well, diameter 8 in (20 cm), depth 435 ft (132.6 m), cased.
DATUM.--Altitude of land-surface datum is about 6,880 ft (2,097 m). Measuring point: Hole in board over casing, 6.00 ft (1.83 m) below land-surface datum.
PERIOD OF RECORD.--April 1965 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 18.13 ft (5.53 m) below land-surface datum, Aug. 6, 1971; lowest, 22.38 ft (6.82 m) below land-surface datum, Mar. 8, 1978.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	WATER LEVEL
NOV 3	20.83
MAR 8	22.38

430118110071001. Local number, 35N 111W 08adb01.
LOCATION.--Lat 43°01'18", long 110°07'10", in NW¼SE¼NE¼ sec.8, T.35 N., R.111 W., Hydrologic Unit 14040101.
Owner: U.S. Geological Survey.
AQUIFER.--Alluvium.
WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1 in (3 cm), depth 39 ft (11.9 m), slotted pipe 30-39 ft (9.1-11.9 m).
DATUM.--Altitude of land-surface datum is about 7,500 ft (2,286 m). Measuring point: Top of pipe, 3.00 ft (0.91 m) above land-surface datum.
PERIOD OF RECORD.--April 1965 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 4.65 ft (1.42 m) below land-surface datum, Apr. 27, 1965; lowest, 7.05 ft (2.15 m) below land-surface datum, July 25, 1966.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	WATER LEVEL
NOV 1	6.44
MAR 7	6.44

UINTA COUNTY

411600110243301. Local number, 15N 115W 20cba01.
LOCATION.--Lat 41°16'00", long 110°24'33", in NE¼NW¼SW¼ sec.20, T.15 N., R.115 W., Hydrologic Unit 14040107.
Owner: School District.
AQUIFER.--Alluvium of terrace along Blacks Fork.
WELL CHARACTERISTICS.--Dug unused water-table well, diameter 24 in (61 cm), depth 17 ft (5.2 m), cased with tile.
DATUM.--Altitude of land-surface datum is about 6,940 ft (2,115 m). Measuring point: Top of concrete cover, 1.00 ft (0.30 m) above land-surface datum.
PERIOD OF RECORD.--April 1957 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.16 ft (0.05 m) above land-surface datum, July 4, 1971; lowest, 11.47 ft (3.50 m) below land-surface datum, Mar. 1, 1978.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	WATER LEVEL
NOV 3	9.48
MAR 1	11.47

412248111020301. Local number, 16N 121W 11acc01.
LOCATION.--Lat 41°22'48", long 111°02'03", in SW¼SW¼NE¼ sec.11, T.16 N., R.121 W., Hydrologic Unit 16010101.
Owner: Elwin Sessions.
AQUIFER.--Terrace deposits.
WELL CHARACTERISTICS.--Dug domestic water-table well, diameter 48± in (122± cm), depth 34 ft (10.4 m), cribbed with rock.
DATUM.--Altitude of land-surface datum is about 6,575 ft (2,004 m). Measuring point: Top of corrugated casing, 3.30 ft (1.01 m) above land-surface datum (since Mar. 4, 1970).
PERIOD OF RECORD.--November 1955 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 12.19 ft (3.72 m) below land-surface datum, June 8, 1970; lowest, 29.12 ft (8.88 m) below land-surface datum, Mar. 15, 1973.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	WATER LEVEL
NOV 3	22.20
MAR 1	14.96

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

STATION NUMBER	LOCAL IDENT-I-FIER	GEO-LOGIC UNIT 1/	SITE	DATE OF SAMPLE	TIME	SAMP-LING DEPTH (FT)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	FLOW RATE, INSTAN-TANEOUS (GPM)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
CARBON COUNTY									
410107107175301	12N 088W 09DCC01	--	SP	77-10-13	1015	--	--	.50	165
410552107225302	13N 089W 14CB 02	--	SP	77-10-12	1115	--	.05	--	1280
410352107304701	13N 090W 27CCA01	211ALMD	GW	77-10-11	1715	--	--	14	625
410352107304101	13N 090W 27CCA01	211ALMD	GW	78-03-22	0830	--	--	6.0	1750
411142107183201	14N 088W 08DAD01	--	SP	77-10-13	1310	--	--	.10	120
411002107183601	14N 088W 21DAD01	--	SP	77-10-13	1115	--	--	.50	92
410826107171101	14N 088W 34CBB01	--	SP	77-10-13	1255	--	--	.01	435
411258107321701	14N 090W 05ADC01	211LWIS	SP	77-10-11	1550	--	--	--	1050
411248107321401	14N 090W 05DAA01	211ALMD	GW	77-10-11	1530	--	--	16	785
		211ALMD	GW	78-03-22	0940	--	--	6.0	830
411152107305001	14N 090W 10CBD01	211ALMD	GW	77-10-11	1640	--	--	11	560
		211ALMD	GW	78-03-22	0930	840	--	E4.5	615
411034107301201	14N 090W 22AAC01	211ALMD	GW	77-10-11	1650	--	--	6.0	540
		211ALMD	GW	78-03-22	0900	860	--	20	605
411334107334601	15N 090W 31DBC01	211ALMD	GW	77-10-11	1550	700	--	120	800
		211ALMD	GW	78-03-22	1000	700	--	90	890
411807107362801	15N 091W 02BC 01	211MVRD	GW	78-03-22	1140	3000	--	M15	1630
411606107362601	15N 091W 14CBA01	--	GW	78-03-22	1050	--	--	40	1660
411608107373701	15N 091W 15CB 01	211MVRD	GW	78-03-22	1030	2776	--	1.0	2000
412252107341201	16N 090W 06CCC01	211MVRD	GW	78-03-24	0915	--	--	30	800
412058107374401	16N 091W 22BB 01	211MVRD	GW	78-03-22	1120	3000	--	100	1940
413111107212101	18N 088W 19CCB01	--	SP	77-10-13	1745	.0	--	.50	290
413058107193001	18N 088W 20DDB01	--	SP	77-10-13	1730	--	--	8.0	225
413147107242601	18N 089W 15CDB01	--	SP	77-10-13	1600	--	--	.10	980
413205107265001	18N 089W 17BCD01	--	SP	77-10-13	1445	.0	--	2.0	2150
413140107280101	18N 089W 19BBA01	--	SP	77-10-13	1630	.0	--	.50	2000
413117107230901	18N 089W 23BDC01	--	SP	77-10-13	1700	--	--	.00	460
LINCULN COUNTY									
415509110355501	22N 116W 05AAD01	211HLRD	SP	77-10-20	1100	--	--	E4.0	880
415512110414501	22N 117W 04ABC01	124GRRV	SP	77-10-20	1050	--	--	E.10	400
415038110451001	22N 118W 25DDA01	--	GW	77-10-20	1130	400	--	--	8500
415858110111201	23N 113W 12CDD01	--	GW	77-10-17	1200	--	--	E15	1300
415944110305301	23N 115W 06CCD01	211FRNR	SP	77-10-20	0910	--	--	E.75	535
415645110281701	23N 115W 29ACD01	--	GW	77-10-17	1320	.0	--	121	225
415541110363001	23N 116W 32CAC01	211FRNR	SP	77-10-20	1025	--	--	E1.5	315
420123110025201	24N 111W 30DDD01	124LNEY	SP	77-10-18	1630	--	--	--	500
420103110040401	24N 112W 25DCD01	124GRRV	SP	77-10-18	1600	--	--	E200	540
420023110285401	24N 115W 32CBD01	211ADVL	SP	77-10-20	0850	--	--	E1.0	625
420928110283201	25N 115W 14BAC01	217BRRV	SP	77-10-18	0945	--	--	E4.0	510
421509110185301	26N 113W 07BDA01	361BGRN	SP	77-10-18	1015	--	--	E5.0	400
421504110183101	26N 113W 07CDD01	361BGRN	SP	77-10-18	1120	--	--	E3.0	500
421405110275601	26N 115W 15CDB01	227NGGT	SP	77-10-18	0930	--	--	E5.0	320
421211110261901	26N 115W 26ADC01	227NGGT	SP	77-10-18	1015	--	--	10	380
SUBLETTE COUNTY									
422312110182001	28N 113W 30ADA01	124WSTC	SP	77-10-19	1040	--	--	5.0	540
422632110205201	28N 114W 02DBB01	124WSTC	SP	77-10-19	0930	--	--	E.01	760
422547110234501	28N 114W 09BDA01	124WSTC	GW	77-10-19	1015	--	--	E2.5	340
422503110215601	28N 114W 15AAD01	--	SP	77-10-19	1055	--	--	E2.0	640
422953110242101	29N 114W 15DBC01	124WSTC	SP	77-10-19	0940	--	--	.25	460
422807110281601	29N 114W 30CCD01	124WSTC	SP	77-10-19	1020	--	--	7.0	410
424632110020001	32N 111W 11ABC01	124WSTC	SP	77-10-24	1435	--	--	E200	1450
431636110005701	38N 110W 11ABC01	--	SP	77-10-24	1515	--	--	E100	1400
SWEETWATER COUNTY									
410043109475701	12N 110W 22ABB01	124LNEY	SP	77-10-23	1335	--	--	E150	3700
410114109550201	12N 111W 15CAB01	124BRDG	SP	77-10-23	1030	--	--	E2.0	610
410024109520301	12N 111W 24ADD01	124BRDG	SP	77-10-23	1305	--	--	M6.0	630
410525110004201	13N 112W 23CAD01	122BSHP	SP	77-10-23	1100	--	--	8.0	440

E-Estimate.
M-Totaling meter.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

STATION NUMBER	DATE OF SAMPLE	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ACIDITY TOTAL HEATED (MG/L AS H)	ACIDITY (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
CARBON COUNTY--Continued											
410107107175301	77-10-13	7.8	13.0	--	--	--	100	14	--	--	31
410552107225302	77-10-12	8.8	10.5	--	--	--	15	0	--	--	2.4
410352107304701	77-10-11	8.0	23.0	--	--	--	5	0	--	--	.0
410352107304101	78-03-22	8.3	23.0	--	--	--	15	0	--	--	3.7
411142107183201	77-10-13	6.5	6.0	--	--	--	55	0	--	--	17
411002107183601	77-10-13	7.5	11.0	--	--	--	36	0	--	--	11
410826107171101	77-10-13	6.9	12.0	--	--	--	210	8	--	--	67
411258107321701	77-10-11	7.4	11.5	--	--	--	350	0	--	--	67
411248107321401	77-10-11	8.7	13.5	--	--	--	6	0	--	--	1.4
	78-03-22	9.0	14.5	--	--	--	5	0	--	--	1.2
411152107305001	77-10-11	8.6	12.5	--	--	--	25	0	--	--	5.7
	78-03-22	8.7	13.5	--	--	--	28	0	--	--	6.0
411034107301201	77-10-11	8.0	14.0	--	--	--	100	0	--	--	22
	78-03-22	7.9	13.5	--	--	--	120	0	--	--	23
411334107334601	77-10-11	8.5	16.0	--	--	--	3	0	--	--	.9
	78-03-22	8.9	17.0	--	--	--	9	0	--	--	2.3
411807107362801	78-03-22	8.5	18.5	--	--	--	6	0	--	--	1.4
411606107362601	78-03-22	8.7	25.0	--	--	--	7	0	--	--	2.3
411608107373701	78-03-22	8.4	15.0	--	--	--	11	0	--	--	2.8
412252107341201	78-03-24	7.9	12.5	--	--	--	240	0	--	--	38
412058107374401	78-03-22	8.5	28.0	--	--	--	17	0	--	--	4.6
413111107212101	77-10-13	7.4	6.0	--	--	--	150	24	--	--	53
413058107193001	77-10-13	8.1	9.0	--	--	--	110	15	--	--	42
413147107242601	77-10-13	7.4	3.0	--	--	--	420	140	--	--	120
413205107265001	77-10-13	7.4	7.0	--	--	--	990	520	--	--	150
413140107280101	77-10-13	7.6	10.0	--	--	--	950	710	--	--	200
413117107230901	77-10-13	8.0	13.0	--	--	--	200	0	--	--	59
LINCOLN COUNTY--Continued											
415509110355501	77-10-20	7.1	6.0	--	--	--	300	52	--	--	88
415512110414501	77-10-20	7.4	6.5	--	--	--	210	5	--	--	46
415038110451001	77-10-20	8.0	9.5	5	30	--	190	8	.1	5.0	49
415858110111201	77-10-17	7.8	7.5	--	--	.3	370	80	--	--	68
415944110305301	77-10-20	8.1	5.0	--	--	--	200	0	--	--	61
415645110281701	77-10-17	7.5	8.0	--	--	6.8	180	0	--	--	49
415541110363001	77-10-20	7.4	6.0	--	--	--	170	10	--	--	63
420123110025201	77-10-18	8.1	16.0	--	--	--	170	27	--	--	42
420103110040401	77-10-18	8.2	13.0	--	--	--	190	52	--	--	47
420023110285401	77-10-20	7.5	7.0	--	--	--	230	1	--	--	66
420928110283201	77-10-18	7.3	7.5	--	--	--	220	39	--	--	68
421509110185301	77-10-18	7.6	8.0	--	--	--	220	37	--	--	46
421504110183101	77-10-18	7.2	9.0	--	--	--	270	41	--	--	59
421405110275601	77-10-18	8.0	5.0	--	--	--	170	0	--	--	51
421211110261901	77-10-18	7.2	7.0	--	--	--	180	0	--	--	64
SUBLETTE COUNTY--Continued											
422312110182001	77-10-19	7.6	7.5	--	--	--	290	71	--	--	56
422632110205201	77-10-19	7.7	4.5	--	--	--	310	0	--	--	68
422547110234501	77-10-19	7.6	4.0	--	--	--	230	11	--	--	55
422503110215601	77-10-19	7.8	7.0	--	--	--	310	0	--	--	46
422953110242101	77-10-19	8.3	11.0	--	--	--	270	4	--	--	54
422807110281601	77-10-19	7.6	4.0	--	--	--	220	35	--	--	50
424632110020001	77-10-24	8.9	8.0	--	--	--	98	0	--	--	21
431636110005701	77-10-24	7.7	10.0	--	--	--	870	760	--	--	220
SWEETWATER COUNTY--Continued											
410043109475701	77-10-23	6.8	10.0	--	--	--	2900	2400	--	--	500
410114109550201	77-10-23	7.8	7.0	--	--	--	310	51	--	--	53
410024109520301	77-10-23	7.4	8.0	--	--	--	340	54	--	--	69
410525110004201	77-10-23	7.9	8.0	--	--	--	200	40	--	--	52

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

STATION NUMBER	DATE OF SAMPLE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFIDE TOTAL (MG/L AS S)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
CARBON COUNTY--Continued											
410107107175301	77-10-13	6.5	9.8	.4	2.4	110	0	90	--	27	3.1
410552107225302	77-10-12	2.3	350	39	4.3	780	0	640	--	81	43
410352107304701	77-10-11	1.3	440	83	11	1150	0	940	--	5.2	7.5
410352107304101	78-03-22	1.4	460	52	12	1190	0	980	--	6.7	7.3
411142107183201	77-10-13	3.1	4.1	.2	.9	67	0	55	--	3.8	1.4
411002107183601	77-10-13	2.8	4.5	.3	.4	46	0	38	--	4.5	1.1
410826107171101	77-10-13	11	7.4	.2	2.6	250	0	210	--	17	4.6
411258107321701	77-10-11	45	110	2.6	4.1	570	0	470	--	130	5.8
411248107321401	77-10-11	.5	190	35	1.6	440	19	390	--	37	3.6
	78-03-22	.4	210	42	1.7	440	26	400	--	38	3.6
411152107305001	77-10-11	2.7	160	14	2.9	410	7	350	--	26	3.6
	78-03-22	3.1	160	13	3.1	410	10	350	--	25	3.9
411034107301201	77-10-11	12	83	3.5	6.0	360	0	300	--	15	3.0
	78-03-22	14	88	3.6	6.7	360	0	300	--	15	4.3
411334107334601	77-10-11	.3	210	49	2.0	540	15	470	--	3.3	5.0
	78-03-22	.7	210	31	2.3	540	10	460	--	5.7	4.9
411807107362801	78-03-22	.6	410	73	2.5	1000	0	820	--	46	9.6
411606107362601	78-03-22	.4	410	66	2.2	1030	31	900	--	7.6	24
411608107373701	78-03-22	.9	510	68	4.3	1300	14	1090	--	11	39
412252107341201	78-03-24	35	86	2.4	6.3	410	0	340	--	99	3.3
412058107374401	78-03-22	1.4	480	50	3.9	1140	12	960	--	66	48
413111107212101	77-10-13	3.5	3.9	.1	1.4	150	0	120	--	27	1.4
413058107193001	77-10-13	2.0	3.0	.1	1.4	120	0	98	--	14	2.9
413147107242601	77-10-13	30	7.6	.2	2.9	340	0	280	--	150	4.1
413205107265001	77-10-13	150	190	2.6	4.6	580	0	480	--	850	31
413140107280101	77-10-13	110	100	1.4	5.5	290	0	240	--	890	12
413117107230901	77-10-13	12	22	.7	3.6	240	0	200	--	37	4.9
LINCOLN COUNTY--Continued											
415509110355501	77-10-20	19	8.0	.2	1.9	300	0	250	--	50	4.5
415512110414501	77-10-20	23	11	.3	2.4	250	0	210	--	15	5.0
415038110451001	77-10-20	16	2000	63	6.9	220	0	180	.3	510	2700
415858110111201	77-10-17	48	160	3.6	1.2	350	0	290	--	400	18
415944110305301	77-10-20	11	44	1.4	2.9	280	0	230	--	59	13
415645110281701	77-10-17	15	15	.5	1.2	240	0	200	--	17	6.2
415541110363001	77-10-20	4.0	1.3	.0	.4	200	0	160	--	11	.8
420123110025201	77-10-18	15	46	1.6	1.5	170	0	140	--	110	4.7
420103110040401	77-10-18	18	40	1.3	1.5	170	0	140	--	120	4.8
420023110285401	77-10-20	16	56	1.6	1.7	280	0	230	--	76	31
420928110283201	77-10-18	12	17	.5	2.3	220	0	180	--	57	8.4
421509110185301	77-10-18	25	6.0	.2	.7	220	0	180	--	22	7.7
421504110183101	77-10-18	30	6.9	.2	1.3	280	0	230	--	33	10
421405110275601	77-10-18	11	4.3	.1	.6	210	0	170	--	5.1	3.2
421211110261901	77-10-18	5.9	3.8	.1	.9	230	0	190	--	4.9	2.7
SUBLETTE COUNTY--Continued											
422312110182001	77-10-19	37	4.9	.1	1.1	270	0	220	--	61	6.4
422632110205201	77-10-19	35	43	1.1	1.5	410	0	340	--	26	43
422547110234501	77-10-19	23	3.8	.1	1.0	270	0	220	--	19	1.9
422503110215601	77-10-19	47	25	.6	1.4	400	0	330	--	12	12
422953110242101	77-10-19	32	8.7	.2	2.3	320	0	260	--	13	6.7
422807110281601	77-10-19	22	2.3	.1	.7	220	0	180	--	29	1.2
424632110020001	77-10-24	11	340	15	2.3	510	9	430	--	370	19
431636110005701	77-10-24	78	8.8	.1	6.4	140	0	110	--	730	13
SWEETWATER COUNTY--Continued											
410043109475701	77-10-23	390	150	1.2	31	500	0	410	--	2700	53
410114109550201	77-10-23	44	17	.4	3.5	320	0	260	--	44	23
410024109520301	77-10-23	41	8.7	.2	4.0	350	0	290	--	42	16
410525110004201	77-10-23	16	12	.4	2.0	190	0	160	--	27	27

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

CARBON COUNTY--Continued

STATION NUMBER	DATE OF SAMPLE	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 105 DEG. C, DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)
410107107175301	77-10-13	.3	36	--	171	.23	--	.02	.00	.00	.00
410552107225302	77-10-12	1.6	8.8	810	879	1.20	1	.00	.27	.25	.32
410352107304701	77-10-11	7.9	12	1000	1050	1.43	20	.01	1.1	1.1	1.4
410352107304101	78-03-22	--	9.9	--	1090	1.48	--	.04	--	--	--
411142107183201	77-10-13	.2	29	--	94	.13	--	.30	.00	.00	.00
411002107183601	77-10-13	.1	36	--	84	.11	--	.28	.00	.01	.01
410826107171101	77-10-13	.3	28	--	262	.36	--	.02	--	--	--
411258107321701	77-10-11	.7	11	--	657	.89	--	.01	1.3	1.1	1.4
411248107321401	77-10-11	2.0	8.9	470	483	.66	36	.00	.57	.57	.73
	78-03-22	--	7.7	--	506	.69	--	.03	--	--	--
411152107305001	77-10-11	2.3	9.1	420	423	.58	190	.01	.85	.90	1.2
	78-03-22	--	7.9	--	421	.57	--	.03	--	--	--
411034107301201	77-10-11	1.1	8.5	--	330	.45	--	.03	.96	.95	1.2
	78-03-22	--	7.4	--	337	.46	--	.15	--	--	--
411334107334601	77-10-11	2.0	9.3	--	516	.70	--	.00	.60	.63	.81
	78-03-22	--	8.1	--	511	.70	--	.01	--	--	--
411807107362801	78-03-22	--	8.8	--	972	1.32	--	.02	--	--	--
411606107362601	78-03-22	--	11	990	997	1.36	29	.01	--	--	--
411608107373701	78-03-22	--	11	--	1230	1.67	--	.01	--	--	--
412252107341201	78-03-24	--	7.4	--	477	.65	--	.04	--	--	--
412058107374401	78-03-22	--	12	--	1190	1.62	--	.01	--	--	--
413111107212101	77-10-13	.2	15	--	180	.24	--	.08	.00	.00	.00
413058107193001	77-10-13	.1	14	130	140	.19	12	.28	.02	.00	.00
413147107242601	77-10-13	.2	9.5	540	492	.67	350	.02	.06	.00	.00
413205107265001	77-10-13	.4	9.3	--	1670	2.27	--	.27	.05	.01	.01
413140107280101	77-10-13	.4	15	--	1480	2.01	--	.28	.00	.00	.00
413117107230901	77-10-13	.5	13	--	271	.37	--	.02	.17	.00	.00

LINCOLN COUNTY--Continued

STATION NUMBER	DATE OF SAMPLE	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 105 DEG. C, DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)
415509110355501	77-10-20	.1	14	--	334	.45	--	.07	.00	.00	.00
415512110414501	77-10-20	.4	14	--	244	.33	--	.82	.00	.00	.00
415038110451001	77-10-20	1.0	6.2	--	5400	7.34	--	.03	1.8	1.6	2.1
415858110111201	77-10-17	.4	22	--	890	1.21	--	.00	.20	.10	.13
415944110305301	77-10-20	.2	12	340	341	.46	27	.02	.00	.00	.00
415645110281701	77-10-17	.2	14	--	238	.32	--	.46	.01	.00	.00
415541110363001	77-10-20	.1	7.3	190	187	.25	<1	.05	.00	.00	.00
420123110025201	77-10-18	.3	7.0	--	311	.42	--	.12	.01	.00	.00
420103110040401	77-10-18	.4	7.1	--	323	.44	--	.13	.01	.00	.00
420023110285401	77-10-20	.5	11	--	397	.54	--	.05	.03	.00	.00
420928110283201	77-10-18	.5	9.4	--	283	.38	--	.03	.01	.00	.00
421509110185301	77-10-18	.1	7.6	220	227	.31	5	.65	.02	.00	.00
421504110183101	77-10-18	.1	8.3	--	287	.39	--	.15	.02	.00	.00
421405110275601	77-10-18	.1	18	190	198	.27	17	.25	.00	.00	.00
421211110261901	77-10-18	.1	11	--	209	.28	--	.61	.02	.00	.00

SUBLETTE COUNTY--Continued

STATION NUMBER	DATE OF SAMPLE	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 105 DEG. C, DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)
422312110182001	77-10-19	.2	7.0	330	307	.42	<1	.15	.00	.00	.00
422632110205201	77-10-19	.4	11	--	431	.59	--	.03	.50	.00	.00
422547110234501	77-10-19	.1	6.6	--	244	.33	--	.09	.01	.00	.00
422503110215601	77-10-19	.3	12	--	353	.48	--	.05	.00	.00	.00
422953110242101	77-10-19	.2	11	290	287	.39	<1	.21	.01	.00	.00
422807110281601	77-10-19	.2	8.4	230	223	.30	<1	.18	.00	.00	.00
424632110020001	77-10-24	.6	3.4	1000	1030	1.40	30	.01	.03	.03	.04
431636110005701	77-10-24	2.3	12	1300	1140	1.55	1	.02	.06	.09	.12

SWEETWATER COUNTY--Continued

STATION NUMBER	DATE OF SAMPLE	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 105 DEG. C, DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)
410043109475701	77-10-23	1.9	19	--	4100	5.58	--	.02	.24	.27	.35
410114109550201	77-10-23	.3	15	--	359	.49	--	.30	.00	.00	.00
410024109520301	77-10-23	.3	18	380	372	.51	<1	.09	.02	.01	.01
410525110004201	77-10-23	.5	11	280	251	.34	<1	2.2	.00	.00	.00

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

STATION NUMBER	DATE OF SAMPLE	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	CYANIDE TOTAL (MG/L AS CN)
CARBON COUNTY--Continued											
410107107175301	77-10-13	1.9	.02	1.9	1.9	.02	.26	.12	.01	.03	--
410552107225302	77-10-12	.30	.26	.57	.06	.51	.07	.09	.03	.09	--
410352107304701	77-10-11	.10	.00	1.2	.23	.97	.01	.03	.03	.09	--
410352107304101	78-03-22	--	--	2.3	1.0	1.3	1.8	--	.01	.03	--
411142107183201	77-10-13	.75	.17	.75	.58	.17	.12	.05	.04	.12	--
411002107183601	77-10-13	.29	.36	.29	.00	.37	.11	.10	.01	.03	--
410826107171101	77-10-13	--	--	--	--	--	.27	.02	.05	.15	--
411258107321701	77-10-11	.10	.00	1.4	.45	.95	.10	.01	.04	.12	--
411248107321401	77-10-11	.00	.00	.56	.10	.46	.11	.11	.11	.34	--
	78-03-22	--	--	1.2	.00	1.2	.12	--	.07	.21	--
411152107305001	77-10-11	.04	.00	.89	.28	.61	.09	.09	.08	.25	--
	78-03-22	--	--	1.2	.52	.68	.10	--	.05	.15	--
411034107301201	77-10-11	.04	.00	1.0	.09	.91	.10	.01	.04	.12	--
	78-03-22	--	--	2.1	.80	1.3	.09	--	.00	.00	--
411334107334601	77-10-11	.08	.00	.68	.06	.62	.08	.08	.09	.28	--
	78-03-22	--	--	.79	.03	.76	.09	--	.07	.21	--
411807107362801	78-03-22	--	--	.99	.55	.44	.07	--	.05	.15	--
411606107362601	78-03-22	--	--	1.5	.40	1.1	.06	--	.04	.12	--
411608107373701	78-03-22	--	--	.82	.07	.75	.07	--	.04	.12	--
412252107341201	78-03-24	--	--	1.4	.00	1.4	.02	--	.00	.00	--
412058107374401	78-03-22	--	--	.94	.03	.91	.10	--	.04	.12	--
413111107212101	77-10-13	.66	.09	.66	.57	.09	.12	.03	.01	.03	--
413058107193001	77-10-13	.57	.14	.59	.45	.14	.11	.04	.01	.03	--
413147107242601	77-10-13	.48	.31	.54	.23	.31	.07	.00	.01	.03	--
413205107265001	77-10-13	.33	.34	.38	.03	.35	.13	.00	.00	.00	--
413140107280101	77-10-13	.09	.29	.09	.00	.29	.04	.02	.01	.03	--
413117107230901	77-10-13	.65	.61	.82	.21	.61	.05	.03	.00	.00	--
LINCOLN COUNTY--Continued											
415509110355501	77-10-20	.15	.01	.15	.14	.01	.04	.04	.01	.03	--
415512110414501	77-10-20	.04	.02	.04	.02	.02	.01	.01	.02	.06	--
415038110451001	77-10-20	--	--	--	--	--	--	--	.01	.03	.00
415858110111201	77-10-17	.17	.05	.37	.22	.15	.01	.01	.01	.03	--
415944110305301	77-10-20	.09	.07	.09	.02	.07	.02	.00	.00	.00	--
415645110281701	77-10-17	.16	.08	.17	.09	.08	.02	.02	.01	.03	--
415541110363001	77-10-20	.05	.05	.05	.00	.05	.06	.06	.03	.09	--
420123110025201	77-10-18	.09	.15	.10	.00	.15	.00	.01	.01	.03	--
420103110040401	77-10-18	.10	.11	.11	.00	.11	.00	.01	.01	.03	--
420023110285401	77-10-20	.26	.02	.29	.27	.02	.04	.02	.01	.03	--
420928110283201	77-10-18	.15	.05	.16	.11	.05	.07	.03	.01	.03	--
421509110185301	77-10-18	.13	.05	.15	.10	.05	.01	.00	.01	.03	--
421504110183101	77-10-16	.10	.14	.12	.00	.14	.01	.00	.01	.03	--
421405110275601	77-10-18	1.2	.05	1.2	1.2	.05	.24	.07	.04	.12	--
421211110261901	77-10-18	.19	.09	.21	.12	.09	.05	.02	.01	.03	--
SUBLETTE COUNTY--Continued											
422312110182001	77-10-19	.07	.05	.07	.02	.05	.00	.00	.00	.00	--
422632110205201	77-10-19	7.3	.68	7.8	7.1	.68	6.4	.03	.01	.03	--
422547110234501	77-10-19	.04	.07	.05	.00	.07	.04	.04	.01	.03	--
422503110215601	77-10-19	1.1	.21	1.1	.89	.21	.09	.01	.00	.00	--
422953110242101	77-10-19	.07	.05	.08	.03	.05	.03	.02	.01	.03	--
422807110281601	77-10-19	.05	.07	.05	.00	.07	.00	.01	.01	.03	--
424632110020001	77-10-24	.30	.27	.33	.03	.30	.06	.03	.02	.06	--
431636110005701	77-10-24	.00	.00	.05	.00	.05	.01	.01	.01	.03	--
SWEETWATER COUNTY--Continued											
410043109475701	77-10-23	.86	.69	1.1	.14	.96	.13	.02	.02	.06	--
410114109550201	77-10-23	.08	.15	.08	.00	.15	.02	.00	.00	.00	--
410024109520301	77-10-23	.13	.04	.15	.10	.05	.01	.02	.01	.03	--
410525110004201	77-10-23	.51	.39	.51	.12	.39	.01	.01	.00	.00	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

STATION NUMBER	DATE OF SAMPLE	PHENOLS (UG/L)	PHYTO-PLANK-TON, TOTAL (CELLS PER ML)	BIOMASS CHLORO-PHYLL RATIO PLANK-TON (UNITS)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L)
			CARBON COUNTY--Continued			
410107107175301	77-10-13	--	--	--	--	--
410552107225302	77-10-12	--	20000	--	--	--
410352107304701	77-10-11	--	--	--	--	--
410352107304101	78-03-22	--	--	--	--	--
411142107183201	77-10-13	--	--	--	--	--
411002107183601	77-10-13	--	81000	--	--	--
410826107171101	77-10-13	--	--	--	--	--
411258107321701	77-10-11	--	800	--	--	--
411248107321401	77-10-11	--	--	--	--	--
	78-03-22	--	--	--	--	--
411152107305001	77-10-11	--	--	--	--	--
	78-03-22	--	--	--	--	--
411034107301201	77-10-11	--	--	--	--	--
	78-03-22	--	--	--	--	--
411334107334601	77-10-11	--	--	--	--	--
	78-03-22	--	--	--	--	--
411807107362801	78-03-22	--	--	--	--	--
411606107362601	78-03-22	--	--	--	--	--
411608107373701	78-03-22	--	--	--	--	--
412252107341201	78-03-24	--	--	--	--	--
412058107374401	78-03-22	--	--	--	--	--
413111107212101	77-10-13	--	--	--	--	--
413058107193001	77-10-13	--	1200	--	--	--
413147107242601	77-10-13	--	980	--	--	--
413205107265001	77-10-13	--	2400	--	--	--
413140107280101	77-10-13	--	--	--	--	--
413117107230901	77-10-13	--	--	--	--	--
			LINCULN COUNTY--Continued			
415509110355501	77-10-20	--	3100	--	.062	.016
415512110414501	77-10-20	--	400	--	.000	.000
415038110451001	77-10-20	0	--	--	--	--
415858110111201	77-10-17	--	--	--	--	--
415944110305301	77-10-20	--	410	--	.000	.000
415645110281701	77-10-17	--	130	--	--	--
415541110363001	77-10-20	--	1500	--	.198	.016
420123110025201	77-10-18	--	0	--	.001	.001
420103110040401	77-10-18	--	0	15870	.063	.003
420023110285401	77-10-20	--	1500	--	.157	.031
420928110283201	77-10-18	--	4600	9795	4.39	4.18
421509110185301	77-10-18	--	19	750000	.004	.003
421504110183101	77-10-18	--	52	4514	.867	.039
421405110275601	77-10-18	--	320	--	--	--
421211110261901	77-10-18	--	75000	5293	6.99	1.89
			SUBLETTE COUNTY--Continued			
422312110182001	77-10-19	--	2800	--	--	--
422632110205201	77-10-19	--	85000	52140	.959	.042
422547110234501	77-10-19	--	200	9615	.208	.143
422503110215601	77-10-19	--	580	22420	.669	.059
422953110242101	77-10-19	--	2100	571	1.75	.001
422807110281601	77-10-19	--	1700	4663	1.93	.386
424632110020001	77-10-24	--	290	--	--	--
431636110005701	77-10-24	--	0	--	--	--
			SWEETWATER COUNTY--Continued			
410043109475701	77-10-23	--	150	--	--	--
410114109550201	77-10-23	--	110	--	--	--
410024109520301	77-10-23	--	0	--	--	--
410525110004201	77-10-23	--	92	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

STATION NUMBER	LOCAL IDENT-I-FIER	GEO-LOGIC UNIT 1/	SITE	DATE OF SAMPLE	TIME	SAMP-LING DEPTH (FT)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	FLOW RATE, INSTAN-TANEOUS (GPM)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
SWEETWATER COUNTY--Continued									
411655108275901	15N 098W 08CCC01	--	GW	78-03-21	1000	--	--	650	1100
411444109482201	15N 110W 27CDC01	124BRDG	SP	77-10-23	1415	--	--	E5.0	1520
412053109581001	16N 111W 19DCD01	124BRDG	SP	77-10-23	1500	--	--	.50	745
412118109574101	17N 111W 08ADA01	124BRDG	SP	77-10-24	0835	--	--	M4.0	1200
413331109245701	18N 106W 07BAD01	124LNEY	SP	77-10-24	0910	--	--	E2.0	1350
413709109043501	19N 104W 18CCB01	227NGGT	GW	77-10-24	1120	--	--	E30	--
415942109125301	23N 104W 05DBB01	111SNDD	SP	77-10-24	1045	--	--	--	1350
415900109152601	23N 105W 12CAC01	124TPTN	SP	77-10-24	1020	--	--	M1.0	980
415851109363201	23N 108W 12CCB01	124LNEY	SP	77-10-15	1600	--	2.0	E900	4000
415716109360501	23N 108W 24BAA01	124LNEY	SP	77-10-15	1215	--	.19	85	5900
415641109363601	23N 109W 25BCB01	124LNEY	SP	77-10-15	1400	--	.08	36	7000
420401109301501	24N 107W 11DAC01	124LNEY	SP	77-10-15	1700	--	.01	E4.0	1900
420055110024301	24N 111W 31ADD01	124GRRV	SP	77-10-18	1700	--	--	--	1800
UINTA COUNTY									
410130110032801	12N 112W 17AAD01	112GLCL	SP	77-10-23	1010	--	--	E2.0	650
410114110055601	12N 113W 13BCC01	112GLCL	SP	77-10-23	0925	--	--	E7.0	425
410016110062501	12N 113W 23ADD01	112GLCL	SP	77-10-23	0945	--	--	E150	460
410611110034101	13N 112W 17DDB01	122BSHP	SP	77-10-23	1120	--	--	M5.0	480
410659110183701	13N 114W 07CAC01	121BRPK	SP	77-10-22	1640	--	--	300	370
410514110175401	13N 114W 19DAD01	121BRPK	SP	77-10-22	1605	--	--	2.0	640
410641110074701	13N 115W 16ABA01	124BRDG	SP	77-10-22	1505	--	--	E35	410
410428110151801	13N 115W 25DBD01	121BRPK	SP	77-10-22	1540	--	--	E200	380
410732110270701	13N 116W 11AAA01	124BRDG	SP	77-10-22	1425	--	--	E2.0	600
410404110290301	13N 116W 33AAB01	124BRDG	SP	77-10-22	1445	--	--	E30	350
411913110032101	16N 112W 33CCA01	124BRDG	SP	77-10-23	1530	--	--	E.50	1350

E-Estimate.
M-Totaling meter.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

STATION NUMBER	DATE OF SAMPLE	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ACIDITY TOTAL HEATED (MG/L AS H)	ACIDITY (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
SWEETWATER COUNTY--Continued											
411655108275901	78-03-21	7.7	4.0	--	--	--	220	0	--	--	49
411444109482201	77-10-23	8.8	10.0	--	--	--	71	0	--	--	17
412053109581001	77-10-23	8.4	11.0	--	--	--	24	0	--	--	8.0
412118109574101	77-10-24	8.2	9.0	--	--	--	23	0	--	--	8.5
413331109245701	77-10-24	7.4	8.0	--	--	--	670	180	--	--	110
413709109043501	77-10-24	7.2	11.0	--	--	--	300	0	--	--	78
415942109125301	77-10-24	10.2	7.0	--	--	--	180	0	--	--	14
415900109152601	77-10-24	9.8	10.0	--	--	--	10	0	--	--	2.2
415851109363201	77-10-15	7.3	8.5	--	--	--	1800	1500	--	--	330
415716109360501	77-10-15	7.5	9.0	--	--	1.2	1900	1700	--	--	250
415641109363601	77-10-15	7.6	15.0	--	--	7.2	2400	2000	--	--	410
420401109301501	77-10-15	7.5	8.0	--	--	--	900	660	--	--	240
420055110024301	77-10-18	8.1	11.0	--	--	--	380	160	--	--	60
UINTA COUNTY--Continued											
410130110032801	77-10-23	8.4	5.0	--	--	--	370	60	--	--	54
410114110055601	77-10-23	7.7	7.0	--	--	--	200	30	--	--	35
410016110062501	77-10-23	7.7	7.0	--	--	--	220	31	--	--	40
410611110034101	77-10-23	7.9	7.0	--	--	--	230	68	--	--	60
410659110183701	77-10-22	7.2	7.0	--	--	--	190	18	--	--	62
410514110175401	77-10-22	8.5	5.0	--	--	--	330	11	--	--	75
410641110074701	77-10-22	7.5	9.0	--	--	--	180	19	--	--	52
410428110151801	77-10-22	7.3	5.0	--	--	--	200	0	--	--	65
410732110270701	77-10-22	7.7	9.0	--	--	--	290	48	--	--	93
410404110290301	77-10-22	7.7	8.0	--	--	--	190	7	--	--	52
411913110032101	77-10-23	8.2	10.0	--	--	--	38	0	--	--	13

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

STATION NUMBER	DATE OF SAMPLE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFIDE TOTAL (MG/L AS S)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
SWEETWATER COUNTY--Continued											
411655108275901	78-03-21	23	130	3.8	1.8	340	0	280	--	220	5.4
411444109482201	77-10-23	7.0	350	18	2.5	580	0	480	--	240	95
412053109581001	77-10-23	.9	170	15	1.2	310	1	260	--	92	23
412118109574101	77-10-24	.4	300	27	.6	380	0	310	--	250	60
413331109245701	77-10-24	96	91	1.5	1.8	600	0	490	--	360	6.2
413709109043501	77-10-24	26	2700	68	190	590	0	480	--	200	3700
415942109125301	77-10-24	34	330	11	18	810	81	800	--	88	23
415900109152601	77-10-24	1.0	250	35	1.8	460	92	530	--	97	2.4
415851109363201	77-10-15	240	490	5.0	4.8	360	0	300	--	2500	30
415716109360501	77-10-15	320	1100	11	4.3	270	0	220	--	3500	66
415641109363601	77-10-15	340	1300	12	9.2	440	0	360	--	4400	90
420401109301501	77-10-15	72	170	2.5	3.8	290	0	240	--	880	52
420055110024301	77-10-18	56	290	6.5	2.1	270	0	220	--	710	14
UINTA COUNTY--Continued											
410130110032801	77-10-23	56	15	.3	2.9	370	1	310	--	34	29
410114110055601	77-10-23	28	16	.5	2.4	210	0	170	--	32	16
410016110062501	77-10-23	29	15	.4	1.3	230	0	190	--	41	10
410611110034101	77-10-23	20	12	.3	2.2	200	0	160	--	49	22
410659110183701	77-10-22	8.5	7.1	.2	2.0	210	0	170	--	13	10
410514110175401	77-10-22	35	16	.4	6.7	380	5	320	--	9.5	19
410641110074701	77-10-22	13	13	.4	4.1	200	0	160	--	15	24
410428110151801	77-10-22	10	4.6	.1	1.6	250	0	210	--	3.9	4.5
410732110270701	77-10-22	15	18	.5	5.4	300	0	250	--	60	18
410404110290301	77-10-22	14	7.0	.2	3.7	220	0	180	--	6.6	5.4
411913110032101	77-10-23	1.4	290	20	1.1	350	0	290	--	310	60

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

STATION NUMBER	DATE OF SAMPLE	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 105 DEG. C, DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)
SWEETWATER COUNTY--Continued											
411655108275901	78-03-21	--	13	--	611	.83	--	.15	--	--	--
411444109482201	77-10-23	1.3	27	1000	1030	1.40	1	.01	.03	.04	.05
412053109581001	77-10-23	1.8	11	--	463	.63	--	.09	.00	.00	.00
412118109574101	77-10-24	2.2	8.7	830	819	1.11	<1	.10	.00	.01	.01
413331109245701	77-10-24	.4	19	1000	982	1.34	36	.41	.00	.01	.01
413709109043501	77-10-24	6.1	21	10000	7220	9.82	17	.01	2.0	2.0	2.6
415942109125301	77-10-24	1.3	16	--	1010	1.37	--	.02	.00	.00	.00
415900109152601	77-10-24	1.4	8.8	--	685	.93	--	.04	.12	.12	.15
415851109363201	77-10-15	1.2	16	--	3800	--	--	1.3	.05	.07	.09
415716109360501	77-10-15	1.8	14	6700	5390	--	2	.01	.07	.10	.13
415641109363601	77-10-15	3.1	19	7500	6790	--	29	.01	.08	.07	.09
420401109301501	77-10-15	.4	18	--	1590	--	--	2.5	.01	.04	.05
420055110024301	77-10-18	1.2	13	--	1290	1.75	--	3.3	.01	.00	.00
UINTA COUNTY--Continued											
410130110032801	77-10-23	.8	14	--	390	.53	--	.11	.00	.00	.00
410114110055601	77-10-23	.6	11	260	253	.34	2	1.8	.00	.01	.01
410016110062501	77-10-23	.3	10	--	266	.36	--	1.3	.00	.01	.01
410611110034101	77-10-23	.5	22	--	298	.41	--	2.7	.00	.00	.00
410659110183701	77-10-22	.2	27	240	236	.32	7	.58	.00	.01	.01
410514110175401	77-10-22	.4	29	--	383	.52	--	.01	.00	.03	.04
410641110074701	77-10-22	.2	17	260	241	.33	23	1.0	.00	.00	.00
410428110151801	77-10-22	.2	25	230	240	.33	1	.43	.00	.01	.01
410732110270701	77-10-22	.2	21	380	379	.52	11	.01	.00	.02	.03
410404110290301	77-10-22	.1	22	--	220	.30	--	.19	.00	.00	.00
411913110032101	77-10-23	1.5	14	--	865	1.18	--	.15	.02	.00	.00

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

STATION NUMBER	DATE OF SAMPLE	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	CYANIDE TOTAL (MG/L AS CN)
SWEETWATER COUNTY--Continued											
411655108275901	78-03-21	--	--	.42	.04	.38	.03	--	.02	.06	--
411444109482201	77-10-23	.20	.17	.23	.02	.21	.05	.05	.01	.03	--
412053109581001	77-10-23	.21	.15	.21	.06	.15	.04	.03	.03	.09	--
412118109574101	77-10-24	.13	.04	.13	.08	.05	.02	.02	.01	.03	--
413331109245701	77-10-24	.15	.04	.15	.10	.05	.01	.02	.00	.00	--
413709109043501	77-10-24	.00	.00	1.7	.10	1.6	.04	.03	.01	.03	--
415942109125301	77-10-24	.67	.30	.67	.37	.30	.04	.02	.02	.06	--
415900109152601	77-10-24	.42	.14	.54	.28	.26	.09	.06	.00	.00	--
415851109363201	77-10-15	.26	.81	.31	.00	.88	.00	.01	.00	.00	--
415716109360501	77-10-15	.34	.38	.41	.00	.48	.02	.02	.01	.03	--
415641109363601	77-10-15	.29	.37	.37	.00	.44	.03	.00	.00	.00	--
420401109301501	77-10-15	.28	.29	.29	.00	.33	.01	.01	.00	.00	--
420055110024301	77-10-18	.38	.30	.39	.09	.30	.00	.02	.00	.00	--
UINTA COUNTY--Continued											
410130110032801	77-10-23	.66	.31	.66	.35	.31	.07	.00	.00	.00	--
410114110055601	77-10-23	.03	.07	.03	.00	.08	.01	.00	.00	.00	--
410016110062501	77-10-23	.19	.04	.19	.14	.05	.04	.01	.01	.03	--
410611110034101	77-10-23	1.2	.27	1.2	.93	.27	.02	.01	.01	.03	--
410659110183701	77-10-22	.08	.04	.08	.03	.05	.04	.03	.01	.03	--
410514110175401	77-10-22	.22	.21	.22	.00	.24	.11	.01	.00	.00	--
410641110074701	77-10-22	.38	.25	.38	.13	.25	.06	.04	.00	.00	--
410428110151801	77-10-22	.08	.05	.08	.02	.06	.03	.03	.01	.03	--
410732110270701	77-10-22	.23	.11	.23	.10	.13	.05	.04	.00	.00	--
410404110290301	77-10-22	.14	.05	.14	.09	.05	.03	.02	.04	.12	--
411913110032101	77-10-23	.35	.20	.37	.17	.20	.03	.01	.01	.03	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

STATION NUMBER	DATE OF SAMPLE	PHENOLS (UG/L)	PHYTU-PLANK-TON, TOTAL (CELLS PER ML)	BIOMASS CHLORO-PHYLL RATIO PLANK-TON (UNITS)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L)
SWEETWATER COUNTY--Continued						
411655108275901	78-03-21	--	--	--	--	--
411444109482201	77-10-23	--	0	--	--	--
412053109581001	77-10-23	--	--	--	--	--
412118109574101	77-10-24	--	--	--	--	--
413331109245701	77-10-24	--	3400	--	--	--
413709109043501	77-10-24	--	0	--	--	--
415942109125301	77-10-24	--	--	--	--	--
415900109152601	77-10-24	--	130	--	--	--
415851109363201	77-10-15	--	1600	30930	.097	.015
415716109360501	77-10-15	--	14000	--	--	--
415641109363601	77-10-15	--	3000	--	--	--
420401109301501	77-10-15	--	1400	--	.298	.010
420055110024301	77-10-18	--	0	50000	.020	.004
UINTA COUNTY--Continued						
410130110032801	77-10-23	--	1000	--	--	--
410114110055601	77-10-23	--	16	--	--	--
410016110062501	77-10-23	--	150	--	--	--
410611110034101	77-10-23	--	0	--	--	--
410659110183701	77-10-22	--	86	--	--	--
410514110175401	77-10-22	--	0	--	--	--
410641110074701	77-10-22	--	740	--	--	--
410428110151801	77-10-22	--	5	--	--	--
410732110270701	77-10-22	--	230	--	--	--
410404110290301	77-10-22	--	220	--	--	--
411913110032101	77-10-23	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

TRACE METALS ANALYSES

STATION NUMBER	LOCAL IDENT-I-FIER	GEO-LOGIC UNIT 1/	SITE	DATE OF SAMPLE	TIME	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS-PENDED TOTAL (UG/L AS AS)
			CARBON COUNTY						
410107107175301	12N 088W 09DCC01	--	SP	77-10-13	1015	--	--	--	--
410552107225302	13N 089W 14CB 02	--	SP	77-10-12	1115	90	--	0	--
410352107304701	13N 090W 27CCA01	211ALMD	GW	77-10-11	1715	1400	--	0	--
410352107304101	13N 090W 27CCA01	211ALMD	GW	78-03-22	0830	--	--	--	--
411142107183201	14N 088W 08DAD01	--	SP	77-10-13	1310	--	--	--	--
411002107183601	14N 088W 21DAD01	--	SP	77-10-13	1115	--	--	--	--
410826107171101	14N 088W 34CBB01	--	SP	77-10-13	1255	--	--	--	--
411258107321701	14N 090W 05ADC01	211LWIS	SP	77-10-11	1550	--	--	--	--
411248107321401	14N 090W 05DAA01	211ALMD	GW	77-10-11	1530	30	--	0	--
		211ALMD	GW	78-03-22	0940	--	--	--	--
411152107305001	14N 090W 10CBD01	211ALMD	GW	77-10-11	1640	2000	--	0	--
		211ALMD	GW	78-03-22	0930	--	--	--	--
411034107301201	14N 090W 22AAC01	211ALMD	GW	77-10-11	1650	--	--	--	--
		211ALMD	GW	78-03-22	0900	--	--	--	--
411334107334601	15N 090W 31DBC01	211ALMD	GW	77-10-11	1550	70	--	0	--
		211ALMD	GW	78-03-22	1000	--	--	--	--
411807107362801	15N 091W 02BC 01	211MVRD	GW	78-03-22	1140	--	--	--	--
411606107362601	15N 091W 14CBA01	--	GW	78-03-22	1050	80	--	1	--
411608107373701	15N 091W 15CB 01	211MVRD	GW	78-03-22	1030	--	--	--	--
412252107341201	16N 090W 06CCC01	211MVRD	GW	78-03-24	0915	30	--	1	--
412058107374401	16N 091W 22BB 01	211MVRD	GW	78-03-22	1120	--	--	--	--
413111107212101	18N 088W 19CCB01	--	SP	77-10-13	1745	--	--	--	--
413058107193001	18N 088W 20DDB01	--	SP	77-10-13	1730	0	--	2	--
413147107242601	18N 089W 15CDB01	--	SP	77-10-13	1600	3100	--	3	--
413205107265001	18N 089W 17BCD01	--	SP	77-10-13	1445	--	--	--	--
413140107280101	18N 089W 19BBA01	--	SP	77-10-13	1630	--	--	--	--
413117107230901	18N 089W 23BDC01	--	SP	77-10-13	1700	--	--	--	--
			LINCOLN COUNTY						
415509110355501	22N 116W 05AAD01	211HLRD	SP	77-10-20	1100	--	--	--	--
415512110414501	22N 117W 04ABC01	124GRRV	SP	77-10-20	1050	--	--	--	--
415038110451001	22N 118W 25DDA01	--	GW	77-10-20	1130	110	0	1	1
415858110111201	23N 113W 12CDD01	--	GW	77-10-17	1200	--	--	--	--
415944110305301	23N 115W 06CCD01	211FRNR	SP	77-10-20	0910	0	--	0	--
415645110281701	23N 115W 29ACD01	--	GW	77-10-17	1320	--	--	--	--
415541110363001	23N 116W 32CAC01	211FRNR	SP	77-10-20	1025	0	--	0	--
420123110025201	24N 111W 30DDD01	124LNEY	SP	77-10-18	1630	--	--	--	--
420103110040401	24N 112W 25DCD01	124GRRV	SP	77-10-18	1600	--	--	--	--
420023110285401	24N 115W 32CBD01	211ADVL	SP	77-10-20	0850	--	--	--	--
420928110283201	25N 115W 14BAC01	217BRRV	SP	77-10-18	0945	--	--	--	--
421509110185301	26N 113W 07BDA01	361BGRN	SP	77-10-18	1015	--	--	--	--
421504110183101	26N 113W 07CDD01	361BGRN	SP	77-10-18	1120	--	--	--	--
421405110275601	26N 115W 15CDB01	227NGGT	SP	77-10-18	0930	--	--	--	--
421211110261901	26N 115W 26ADC01	227NGGT	SP	77-10-18	1015	--	--	--	--
			SUBLETTE COUNTY						
422312110182001	28N 113W 30ADA01	124WSTC	SP	77-10-19	1040	0	--	1	--
422632110205201	28N 114W 02DBB01	124WSTC	SP	77-10-19	0930	--	--	--	--
422547110234501	28N 114W 09BDA01	124WSTC	GW	77-10-19	1015	--	--	--	--
422503110215601	28N 114W 15AAD01	--	SP	77-10-19	1055	--	--	--	--
422953110242101	29N 114W 15DBC01	124WSTC	SP	77-10-19	0940	0	--	2	--
422807110281601	29N 114W 30CCD01	124WSTC	SP	77-10-19	1020	0	--	1	--
424632110020001	32N 111W 11ABC01	124WSTC	SP	77-10-24	1435	0	--	3	--
431636110005701	38N 110W 11ABC01	--	SP	77-10-24	1515	2	--	4	--
			SWEETWATER COUNTY						
410043109475701	12N 110W 22ABB01	124LNEY	SP	77-10-23	1335	0	--	4	--
410114109550201	12N 111W 15CAB01	124BRDG	SP	77-10-23	1030	--	--	--	--
410024109520301	12N 111W 24ADD01	124BRDG	SP	77-10-23	1305	0	--	1	--
410525110004201	13N 112W 23CAD01	122BSHP	SP	77-10-23	1100	0	--	7	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

TRACE METALS ANALYSES

STATION NUMBER	DATE OF SAMPLE	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA)	BARIUM, DIS-SOLVED (UG/L AS BA)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM SUS-PENDED RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, SUS-PENDED RECOV. (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)
CARBON COUNTY--Continued											
410107107175301	77-10-13	--	--	--	20	--	--	--	--	--	--
410552107225302	77-10-12	--	300	--	410	<10	--	--	3	--	--
410352107304701	77-10-11	--	800	--	1400	10	--	--	3	--	--
410352107304101	78-03-22	--	--	--	--	0	--	0	--	--	--
411142107183201	77-10-13	--	--	--	10	--	--	--	--	--	--
411002107183601	77-10-13	--	--	--	10	--	--	--	--	--	--
410826107171101	77-10-13	--	--	--	20	--	--	--	--	--	--
411258107321701	77-10-11	--	--	--	500	--	--	--	--	--	--
411248107321401	77-10-11	--	300	--	610	20	--	--	3	--	--
	78-03-22	--	--	--	--	4	--	--	--	--	--
411152107305001	77-10-11	--	400	--	470	<10	--	--	3	--	--
	78-03-22	--	--	--	--	1	--	--	--	--	--
411034107301201	77-10-11	--	--	--	400	--	--	--	--	--	--
	78-03-22	--	--	--	--	1	--	--	--	--	--
411334107334601	77-10-11	--	400	--	860	<10	--	--	3	--	--
	78-03-22	--	--	--	--	10	--	--	--	--	--
411807107362801	78-03-22	--	--	--	--	1	--	--	--	--	--
411606107362601	78-03-22	--	400	--	--	2	--	--	0	--	--
411608107373701	78-03-22	--	--	--	--	--	--	--	--	--	--
412252107341201	78-03-24	--	200	--	--	6	--	--	10	--	--
412058107374401	78-03-22	--	--	--	--	--	--	--	--	--	--
413111107212101	77-10-13	--	--	--	9	--	--	--	--	--	--
413058107193001	77-10-13	--	400	--	10	1	--	--	3	--	--
413147107242601	77-10-13	--	600	--	50	E0	--	--	3	--	--
413205107265001	77-10-13	--	--	--	300	--	--	--	--	--	--
413140107280101	77-10-13	--	--	--	200	--	--	--	--	--	--
413117107230901	77-10-13	--	--	--	70	--	--	--	--	--	--
LINCOLN COUNTY--Continued											
415509110355501	77-10-20	--	--	--	30	--	--	--	--	--	--
415512110414501	77-10-20	--	--	--	50	--	--	--	--	--	--
415038110451001	77-10-20	0	500	0	200	10	10	0	20	20	0
415858110111201	77-10-17	--	--	--	100	--	--	--	--	--	--
415944110305301	77-10-20	--	700	--	50	2	--	--	2	--	--
415645110281701	77-10-17	--	--	--	60	--	--	--	--	--	--
415541110363001	77-10-20	--	600	--	6	0	--	--	3	--	--
420123110025201	77-10-18	--	--	--	40	--	--	--	--	--	--
420103110040401	77-10-18	--	--	--	40	--	--	--	--	--	--
420023110285401	77-10-20	--	--	--	80	--	--	--	--	--	--
420928110283201	77-10-18	--	--	--	70	--	--	--	--	--	--
421509110185301	77-10-18	--	--	--	30	--	--	--	--	--	--
421504110183101	77-10-18	--	--	--	30	--	--	--	--	--	--
421405110275601	77-10-18	--	--	--	10	--	--	--	--	--	--
421211110261901	77-10-18	--	--	--	30	--	--	--	--	--	--
SUBLETTE COUNTY--Continued											
422312110182001	77-10-19	--	700	--	40	0	--	--	3	--	--
422632110205201	77-10-19	--	--	--	100	--	--	--	--	--	--
422547110234501	77-10-19	--	--	--	30	--	--	--	--	--	--
422503110215601	77-10-19	--	--	--	70	--	--	--	--	--	--
422953110242101	77-10-19	--	700	--	50	0	--	--	3	--	--
422807110281601	77-10-19	--	500	--	10	0	--	--	3	--	--
424632110020001	77-10-24	--	100	--	190	0	--	--	2	--	--
431636110005701	77-10-24	--	200	--	80	0	--	--	2	--	--
SWEETWATER COUNTY--Continued											
410043109475701	77-10-23	--	500	--	850	0	--	--	1	--	--
410114109550201	77-10-23	--	--	--	50	--	--	--	--	--	--
410024109520301	77-10-23	--	200	--	80	1	--	--	2	--	--
410525110004201	77-10-23	--	300	--	40	0	--	--	2	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

TRACE METALS ANALYSES

STATION NUMBER	DATE OF SAMPLE	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, SUS-PENDED RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)
CARBON COUNTY--Continued											
410107107175301	77-10-13	--	--	--	--	40	--	--	--	--	--
410552107225302	77-10-12	1	--	--	150	50	1	--	--	4	--
410352107304701	77-10-11	3	--	--	1600	30	59	--	--	20	--
410352107304101	78-03-22	16	--	1	--	0	20	--	1	--	--
411142107183201	77-10-13	--	--	--	--	20	--	--	--	--	--
411002107183601	77-10-13	--	--	--	--	20	--	--	--	--	--
410826107171101	77-10-13	--	--	--	--	50	--	--	--	--	--
411258107321701	77-10-11	--	--	--	--	20	--	--	--	--	--
411248107321401	77-10-11	2	--	--	350	20	97	--	--	8	--
	78-03-22	2	--	--	--	10	20	--	--	--	--
411152107305001	77-10-11	5	--	--	2400	20	10	--	--	20	--
	78-03-22	2	--	--	--	20	4	--	--	--	--
411034107301201	77-10-11	--	--	--	--	20	--	--	--	--	--
	78-03-22	2	--	--	--	60	4	--	--	--	--
411334107334601	77-10-11	3	--	--	260	10	2	--	--	4	--
	78-03-22	2	--	--	--	30	53	--	--	--	--
411807107362801	78-03-22	2	--	--	--	80	3	--	--	--	--
411606107362601	78-03-22	3	--	--	140	90	10	--	--	10	--
411608107373701	78-03-22	--	--	--	--	40	--	--	--	--	--
412252107341201	78-03-24	2	--	--	170	100	28	--	--	20	--
412058107374401	78-03-22	--	--	--	--	30	--	--	--	--	--
413111107212101	77-10-13	--	--	--	--	10	--	--	--	--	--
413058107193001	77-10-13	3	--	--	1100	10	4	--	--	20	--
413147107242601	77-10-13	17	--	--	17000	10	16	--	--	470	--
413205107265001	77-10-13	--	--	--	--	20	--	--	--	--	--
413140107280101	77-10-13	--	--	--	--	20	--	--	--	--	--
413117107230901	77-10-13	--	--	--	--	30	--	--	--	--	--
LINCOLN COUNTY--Continued											
415509110355501	77-10-20	--	--	--	--	10	--	--	--	--	--
415512110414501	77-10-20	--	--	--	--	20	--	--	--	--	--
415038110451001	77-10-20	10	10	0	7800	1600	<100	<99	1	220	20
415858110111201	77-10-17	--	--	--	--	30	--	--	--	--	--
415944110305301	77-10-20	1	--	--	100	10	23	--	--	4	--
415645110281701	77-10-17	--	--	--	--	10	--	--	--	--	--
415541110363001	77-10-20	1	--	--	0	10	2	--	--	4	--
420123110025201	77-10-18	--	--	--	--	50	--	--	--	--	--
420103110040401	77-10-18	--	--	--	--	20	--	--	--	--	--
420023110285401	77-10-20	--	--	--	--	10	--	--	--	--	--
420928110283201	77-10-18	--	--	--	--	10	--	--	--	--	--
421509110185301	77-10-18	--	--	--	--	10	--	--	--	--	--
421504110183101	77-10-18	--	--	--	--	10	--	--	--	--	--
421405110275601	77-10-18	--	--	--	--	10	--	--	--	--	--
421211110261901	77-10-18	--	--	--	--	10	--	--	--	--	--
SUBLETTE COUNTY--Continued											
422312110182001	77-10-19	1	--	--	0	20	0	--	--	8	--
422632110205201	77-10-19	--	--	--	--	20	--	--	--	--	--
422547110234501	77-10-19	--	--	--	--	20	--	--	--	--	--
422503110215601	77-10-19	--	--	--	--	20	--	--	--	--	--
422953110242101	77-10-19	1	--	--	0	30	0	--	--	20	--
422807110281601	77-10-19	0	--	--	0	20	0	--	--	0	--
424632110020001	77-10-24	2	--	--	930	70	1	--	--	70	--
431636110005701	77-10-24	0	--	--	0	30	0	--	--	30	--
SWEETWATER COUNTY--Continued											
410043109475701	77-10-23	4	--	--	3900	1600	0	--	--	730	--
410114109550201	77-10-23	--	--	--	--	10	--	--	--	--	--
410024109520301	77-10-23	1	--	--	0	0	0	--	--	4	--
410525110004201	77-10-23	0	--	--	30	50	0	--	--	4	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

TRACE METALS ANALYSES

STATION NUMBER	DATE OF SAMPLE	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY SUSPENDED RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, SUSPENDED TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, TOTAL RECOVERABLE (UG/L AS AG)	SILVER, DISSOLVED (UG/L AS AG)
CARBON COUNTY--Continued											
410107107175301	77-10-13	90	--	--	--	--	--	--	--	--	--
410552107225302	77-10-12	0	.0	--	--	8	0	--	--	1	--
410352107304701	77-10-11	30	.0	--	--	6	0	--	--	1	--
410352107304101	78-03-22	--	--	--	--	--	--	--	--	--	--
411142107183201	77-10-13	20	--	--	--	--	--	--	--	--	--
411002107183601	77-10-13	20	--	--	--	--	--	--	--	--	--
410826107171101	77-10-13	170	--	--	--	--	--	--	--	--	--
411258107321701	77-10-11	50	--	--	--	--	--	--	--	--	--
411248107321401	77-10-11	0	.0	--	--	7	0	--	--	1	--
	78-03-22	--	--	--	--	--	--	--	--	--	--
411152107305001	77-10-11	10	.0	--	--	6	0	--	--	1	--
	78-03-22	--	--	--	--	--	--	--	--	--	--
411034107301201	77-10-11	10	--	--	--	--	--	--	--	--	--
	78-03-22	--	--	--	--	--	--	--	--	--	--
411334107334601	77-10-11	0	.0	--	--	6	0	--	--	1	--
	78-03-22	--	--	--	--	--	--	--	--	--	--
411807107362801	78-03-22	--	--	--	--	--	--	--	--	--	--
411606107362601	78-03-22	--	.0	--	--	5	4	--	--	1	--
411608107373701	78-03-22	--	--	--	--	--	--	--	--	--	--
412252107341201	78-03-24	--	.0	--	--	5	2	--	--	1	--
412058107374401	78-03-22	--	--	--	--	--	--	--	--	--	--
413111107212101	77-10-13	0	--	--	--	--	--	--	--	--	--
413058107193001	77-10-13	8	.0	--	--	160	11	--	--	0	--
413147107242601	77-10-13	110	.0	--	--	10	2	--	--	0	--
413205107265001	77-10-13	8	--	--	--	--	--	--	--	--	--
413140107280101	77-10-13	40	--	--	--	--	--	--	--	--	--
413117107230901	77-10-13	0	--	--	--	--	--	--	--	--	--
LINCOLN COUNTY--Continued											
415509110355501	77-10-20	0	--	--	--	--	--	--	--	--	--
415512110414501	77-10-20	0	--	--	--	--	--	--	--	--	--
415038110451001	77-10-20	200	.2	.2	.0	--	0	0	0	<10	0
415858110111201	77-10-17	8	--	--	--	--	--	--	--	--	--
415944110305301	77-10-20	20	.0	--	--	4	0	--	--	0	--
415645110281701	77-10-17	4	--	--	--	--	--	--	--	--	--
415541110363001	77-10-20	10	.0	--	--	8	0	--	--	0	--
420123110025201	77-10-18	10	--	--	--	--	--	--	--	--	--
420103110040401	77-10-18	20	--	--	--	--	--	--	--	--	--
420023110285401	77-10-20	30	--	--	--	--	--	--	--	--	--
420928110283201	77-10-18	4	--	--	--	--	--	--	--	--	--
421509110185301	77-10-18	20	--	--	--	--	--	--	--	--	--
421504110183101	77-10-18	0	--	--	--	--	--	--	--	--	--
421405110275601	77-10-18	0	--	--	--	--	--	--	--	--	--
421211110261901	77-10-18	10	--	--	--	--	--	--	--	--	--
SUBLETTE COUNTY--Continued											
422312110182001	77-10-19	30	.0	--	--	7	0	--	--	0	--
422632110205201	77-10-19	400	--	--	--	--	--	--	--	--	--
422547110234501	77-10-19	8	--	--	--	--	--	--	--	--	--
422503110215601	77-10-19	4	--	--	--	--	--	--	--	--	--
422453110242101	77-10-19	20	.0	--	--	10	0	--	--	0	--
422807110281601	77-10-19	20	.0	--	--	10	0	--	--	0	--
424632110020001	77-10-24	40	.0	--	--	6	0	--	--	1	--
431636110005701	77-10-24	20	.0	--	--	8	0	--	--	0	--
SWEETWATER COUNTY--Continued											
410043109475701	77-10-23	860	.0	--	--	8	1	--	--	1	--
410114109550201	77-10-23	20	--	--	--	--	--	--	--	--	--
410024109520301	77-10-23	4	.0	--	--	8	2	--	--	1	--
410525110004201	77-10-23	4	.0	--	--	6	1	--	--	1	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

TRACE METALS ANALYSES

STATION NUMBER	DATE OF SAMPLE	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
CARBON COUNTY--Continued				
410107107175301	77-10-13	--	--	--
410552107225302	77-10-12	0	--	--
410352107304701	77-10-11	0	--	--
410352107304101	78-03-22	--	--	--
411142107183201	77-10-13	--	--	--
411002107183601	77-10-13	--	--	--
410826107171101	77-10-13	--	--	--
411258107321701	77-10-11	--	--	--
411248107321401	77-10-11	0	--	--
	78-03-22	--	--	--
411152107305001	77-10-11	20	--	--
	78-03-22	--	--	--
411034107301201	77-10-11	--	--	--
	78-03-22	--	--	--
411334107334601	77-10-11	10	--	--
	78-03-22	--	--	--
411807107362801	78-03-22	--	--	--
411606107362601	78-03-22	0	--	--
411608107373701	78-03-22	--	--	--
412252107341201	78-03-24	10	--	--
412058107374401	78-03-22	--	--	--
413111107212101	77-10-13	--	--	--
413058107193001	77-10-13	20	--	--
413147107242601	77-10-13	60	--	--
413205107265001	77-10-13	--	--	--
413140107280101	77-10-13	--	--	--
413117107230901	77-10-13	--	--	--
LINCOLN COUNTY--Continued				
415509110355501	77-10-20	--	--	--
415512110414501	77-10-20	--	--	--
415038110451001	77-10-20	2600	1500	1100
415858110111201	77-10-17	--	--	--
415944110305301	77-10-20	6	--	--
415645110281701	77-10-17	--	--	--
415541110363001	77-10-20	2	--	--
420123110025201	77-10-18	--	--	--
420103110040401	77-10-18	--	--	--
420023110285401	77-10-20	--	--	--
420928110283201	77-10-18	--	--	--
421509110185301	77-10-18	--	--	--
421504110183101	77-10-18	--	--	--
421405110275601	77-10-18	--	--	--
421211110261901	77-10-18	--	--	--
SUBLETTE COUNTY--Continued				
422312110182001	77-10-19	0	--	--
422632110205201	77-10-19	--	--	--
422547110234501	77-10-19	--	--	--
422503110215601	77-10-19	--	--	--
422953110242101	77-10-19	4	--	--
422807110281601	77-10-19	4	--	--
424632110020001	77-10-24	20	--	--
431636110005701	77-10-24	20	--	--
SWEETWATER COUNTY--Continued				
410043109475701	77-10-23	40	--	--
410114109550201	77-10-23	--	--	--
410024109520301	77-10-23	10	--	--
410525110004201	77-10-23	10	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

TRACE METALS ANALYSES

STATION NUMBER	LOCAL IDENT-I-FIER	GEO-LOGIC UNIT 1/	SITE	DATE OF SAMPLE	TIME	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS-PENDED TOTAL (UG/L AS AS)
				SWEETWATER COUNTY--Continued					
411655108275901	15N 098W 08CCC01	--	GW	78-03-21	1000	--	--	--	--
411444109482201	15N 110W 27CDC01	124BRDG	SP	77-10-23	1415	0	--	40	--
412053109581001	16N 111W 19DCD01	124BRDG	SP	77-10-23	1500	--	--	--	--
412118109574101	17N 111W 08ADA01	124BRDG	SP	77-10-24	0835	0	--	17	--
413331109245701	18N 106W 07BAD01	124LNEY	SP	77-10-24	0910	0	--	1	--
413709109043501	19N 104W 18CCB01	227NGGT	GW	77-10-24	1120	0	--	64000	--
415942109125301	23N 104W 05DBB01	111SNDD	SP	77-10-24	1045	--	--	--	--
415900109152601	23N 105W 12CAC01	124TPTN	SP	77-10-24	1020	1600	--	3	--
415851109363201	23N 108W 12CCB01	124LNEY	SP	77-10-15	1600	40	--	1	--
415716109360501	23N 108W 24BAA01	124LNEY	SP	77-10-15	1215	20	--	1	--
415641109363601	23N 109W 25BCB01	124LNEY	SP	77-10-15	1400	120	--	1	--
420401109301501	24N 107W 11DAC01	124LNEY	SP	77-10-15	1700	30	--	1	--
420055110024301	24N 111W 31ADD01	124GRRV	SP	77-10-18	1700	--	--	--	--
				UINTA COUNTY					
410130110032801	12N 112W 17AAD01	112GLCL	SP	77-10-23	1010	--	--	--	--
410114110055601	12N 113W 13BCC01	112GLCL	SP	77-10-23	0925	--	--	--	--
410016110062501	12N 113W 23ADD01	112GLCL	SP	77-10-23	0945	0	--	2	--
410611110034101	13N 112W 17DDB01	122BSHP	SP	77-10-23	1120	--	--	--	--
410659110183701	13N 114W 07CAC01	121BRPK	SP	77-10-22	1640	0	--	3	--
410514110175401	13N 114W 19DAD01	121BRPK	SP	77-10-22	1605	--	--	--	--
410641110074701	13N 115W 16ABA01	124BRDG	SP	77-10-22	1505	0	--	5	--
410428110151801	13N 115W 25DBD01	121BRPK	SP	77-10-22	1540	0	--	2	--
410732110270701	13N 116W 11AAA01	124BRDG	SP	77-10-22	1425	0	--	3	--
410404110290301	13N 116W 33AAB01	124BRDG	SP	77-10-22	1445	--	--	--	--
411913110032101	16N 112W 33CCA01	124BRDG	SP	77-10-23	1530	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

TRACE METALS ANALYSES

STATION NUMBER	DATE OF SAMPLE	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA)	BARIUM, DIS-SOLVED (UG/L AS BA)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM SUS-PENDED RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, SUS-PENDED RECOV. (UG/L AS CR)	CHRU-MIUM, DIS-SOLVED (UG/L AS CR)
SWEETWATER COUNTY--Continued											
411655108275901	78-03-21	--	--	--	--	--	--	--	--	--	--
411444109482201	77-10-23	--	100	--	400	0	--	--	2	--	--
412053109581001	77-10-23	--	--	--	690	--	--	--	--	--	--
412118109574101	77-10-24	--	400	--	930	0	--	--	2	--	--
413331109245701	77-10-24	--	500	--	120	0	--	--	2	--	--
413709109043501	77-10-24	--	140000	--	770	0	--	--	0	--	--
415942109125301	77-10-24	--	--	--	270	--	--	--	--	--	--
415900109152601	77-10-24	--	700	--	940	1	--	--	0	--	--
415851109363201	77-10-15	--	0	--	340	0	--	--	10	--	--
415716109360501	77-10-15	--	200	--	840	--	--	--	3	--	--
415641109363601	77-10-15	--	0	--	1100	2	--	--	20	--	--
420401109301501	77-10-15	--	100	--	200	0	--	--	10	--	--
420055110024301	77-10-18	--	--	--	140	--	--	--	--	--	--
UINTA COUNTY--Continued											
410130110032801	77-10-23	--	--	--	100	--	--	--	--	--	--
410114110055601	77-10-23	--	--	--	110	--	--	--	--	--	--
410016110062501	77-10-23	--	700	--	60	0	--	--	3	--	--
410611110034101	77-10-23	--	--	--	40	--	--	--	--	--	--
410659110183701	77-10-22	--	1000	--	30	1	--	--	2	--	--
410514110175401	77-10-22	--	--	--	90	--	--	--	--	--	--
410641110074701	77-10-22	--	300	--	40	3	--	--	1	--	--
410428110151801	77-10-22	--	600	--	30	0	--	--	3	--	--
410732110270701	77-10-22	--	200	--	40	1	--	--	2	--	--
410404110290301	77-10-22	--	--	--	30	--	--	--	--	--	--
411913110032101	77-10-23	--	--	--	830	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

TRACE METALS ANALYSES

STATION NUMBER	DATE OF SAMPLE	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, SUS-PENDED RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)
SWEETWATER COUNTY--Continued											
411655108275901	78-03-21	--	--	--	--	20	--	--	--	--	--
411444109482201	77-10-23	2	--	--	60	70	0	--	--	0	--
412053109581001	77-10-23	--	--	--	--	50	--	--	--	--	--
412118109574101	77-10-24	1	--	--	0	20	0	--	--	0	--
413331109245701	77-10-24	2	--	--	1300	30	12	--	--	60	--
413709109043501	77-10-24	1	--	--	2200	520	1	--	--	150	--
415942109125301	77-10-24	--	--	--	--	20	--	--	--	--	--
415900109152601	77-10-24	5	--	--	3300	210	3	--	--	100	--
415851109363201	77-10-15	28	--	--	60	20	3	--	--	90	--
415716109360501	77-10-15	3	--	--	90	40	0	--	--	340	--
415641109363601	77-10-15	5	--	--	1200	30	50	--	--	120	--
420401109301501	77-10-15	4	--	--	100	20	3	--	--	0	--
420055110024301	77-10-18	--	--	--	--	20	--	--	--	--	--
UINTA COUNTY--Continued											
410130110032801	77-10-23	--	--	--	--	20	--	--	--	--	--
410114110055601	77-10-23	--	--	--	--	20	--	--	--	--	--
410016110062501	77-10-23	1	--	--	130	10	0	--	--	8	--
410611110034101	77-10-23	--	--	--	--	10	--	--	--	--	--
410659110183701	77-10-22	2	--	--	20	10	2	--	--	4	--
410514110175401	77-10-22	--	--	--	--	20	--	--	--	--	--
410641110074701	77-10-22	1	--	--	590	30	11	--	--	30	--
410428110151801	77-10-22	1	--	--	0	0	0	--	--	4	--
410732110270701	77-10-22	4	--	--	0	10	5	--	--	4	--
410404110290301	77-10-22	--	--	--	--	10	--	--	--	--	--
411913110032101	77-10-23	--	--	--	--	20	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

TRACE METALS ANALYSES

STATION NUMBER	DATE OF SAMPLE	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY SUSPENDED RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, SUSPENDED TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, TOTAL RECOVERABLE (UG/L AS AG)	SILVER, DISSOLVED (UG/L AS AG)
					SWEETWATER COUNTY--Continued						
411655108275901	78-03-21	--	--	--	--	--	--	--	--	--	--
411444109482201	77-10-23	8	.0	--	--	94	4	--	--	0	--
412053109581001	77-10-23	8	--	--	--	--	--	--	--	--	--
412118109574101	77-10-24	4	.0	--	--	49	9	--	--	1	--
413331109245701	77-10-24	20	.0	--	--	10	1	--	--	0	--
413709109043501	77-10-24	140	.2	--	--	4	0	--	--	0	--
415942109125301	77-10-24	40	--	--	--	--	--	--	--	--	--
415900109152601	77-10-24	20	.0	--	--	7	0	--	--	0	--
415851109363201	77-10-15	100	.0	--	--	6	5	--	--	0	--
415716109360501	77-10-15	430	.0	--	--	17	0	--	--	0	--
415641109363601	77-10-15	120	.0	--	--	19	0	--	--	0	--
420401109301501	77-10-15	4	.0	--	--	2	8	--	--	0	--
420055110024301	77-10-18	50	--	--	--	--	--	--	--	--	--
					UINTA COUNTY--Continued						
410130110032801	77-10-23	60	--	--	--	--	--	--	--	--	--
410114110055601	77-10-23	8	--	--	--	--	--	--	--	--	--
410016110062501	77-10-23	10	.0	--	--	6	0	--	--	1	--
410611110034101	77-10-23	10	--	--	--	--	--	--	--	--	--
410659110183701	77-10-22	4	.0	--	--	7	0	--	--	1	--
410514110175401	77-10-22	4	--	--	--	--	--	--	--	--	--
410641110074701	77-10-22	20	.0	--	--	3	1	--	--	0	--
410428110151801	77-10-22	4	.0	--	--	7	0	--	--	0	--
410732110270701	77-10-22	8	.0	--	--	8	0	--	--	0	--
410404110290301	77-10-22	8	--	--	--	--	--	--	--	--	--
411913110032101	77-10-23	8	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

TRACE METALS ANALYSES

STATION NUMBER	DATE OF SAMPLE	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
		SWEETWATER COUNTY--Continued		
411655108275901	78-03-21	--	--	--
411444109482201	77-10-23	10	--	--
412053109581001	77-10-23	--	--	--
412118109574101	77-10-24	10	--	--
413331109245701	77-10-24	20	--	--
413709109043501	77-10-24	20	--	--
415942109125301	77-10-24	--	--	--
415900109152601	77-10-24	20	--	--
415851109363201	77-10-15	20	--	--
415716109360501	77-10-15	10	--	--
415641109363601	77-10-15	30	--	--
420401109301501	77-10-15	10	--	--
420055110024301	77-10-18	--	--	--
		UINTA COUNTY--Continued		
410130110032801	77-10-23	--	--	--
410114110055601	77-10-23	--	--	--
410016110062501	77-10-23	10	--	--
410611110034101	77-10-23	--	--	--
410659110183701	77-10-22	6	--	--
410514110175401	77-10-22	--	--	--
410641110074701	77-10-22	8	--	--
410428110151801	77-10-22	10	--	--
410732110270701	77-10-22	10	--	--
410404110290301	77-10-22	--	--	--
411913110032101	77-10-23	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

RADIOCHEMICAL ANALYSES

STATION NUMBER	LOCAL IDENT-I-FIER	GEO-LOGIC UNIT 1/	SITE	DATE OF SAMPLE	TIME	GROSS ALPHA, DIS-SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)
				CARBON COUNTY					
410552107225302	13N 089W 14CB 02	--	SP	77-10-12	1115	<12	<.4	<3.6	<.4
410352107304701	13N 090W 27CCA01	211ALMD	GW	77-10-11	1715	<10	.9	<3.1	.9
411248107321401	14N 090W 05DAA01	211ALMD	GW	77-10-11	1530	<6.0	2.7	<1.7	1.4
411152107305001	14N 090W 10CBD01	211ALMD	GW	77-10-11	1640	13	21	7.0	6.9
411606107362601	15N 091W 14CBA01	--	GW	78-03-22	1050	<7.2	.7	4.2	1.1
413058107193001	18N 088W 20DDB01	--	SP	77-10-13	1730	6.3	1.5	2.9	2.2
413147107242601	18N 089W 15CDB01	--	SP	77-10-13	1600	8.9	31	4.1	20
				LINCOLN COUNTY					
415944110305301	23N 115W 06CCD01	211FRNR	SP	77-10-20	0910	<5.6	1.9	3.9	1.9
415541110363001	23N 116W 32CAC01	211FRNR	SP	77-10-20	1025	<2.7	<.4	<.8	<.4
421509110185301	26N 113W 07BDA01	361BGRN	SP	77-10-18	1015	<2.3	<.4	<.8	<.4
421405110275601	26N 115W 15CDB01	227NGGT	SP	77-10-18	0930	<2.2	.5	.9	.7
				SUBLETTE COUNTY					
422312110182001	28N 113W 30ADA01	124WSTC	SP	77-10-19	1040	<4.3	<.4	2.3	<.4
422953110242101	29N 114W 15DBC01	124WSTC	SP	77-10-19	0940	<4.7	<.4	2.6	<.4
422807110281601	29N 114W 30CCD01	124WSTC	SP	77-10-19	1020	<3.5	<.4	<.9	<.4
424632110020001	32N 111W 11ABC01	124WSTC	SP	77-10-24	1435	<10	1.2	<3.2	1.8
431636110005701	38N 110W 11ABC01	--	SP	77-10-24	1515	73	<.4	19	<.4
				SWEETWATER COUNTY					
410024109520301	12N 111W 24ADD01	124BRDG	SP	77-10-23	1305	<5.3	<.4	6.8	<.4
410525110004201	13N 112W 23CAD01	122BSHP	SP	77-10-23	1100	4.1	.4	2.7	<.4
411444109482201	15N 110W 27CDC01	124BRDG	SP	77-10-23	1415	110	<.4	13	2.2
412118109574101	17N 111W 08ADA01	124BRDG	SP	77-10-24	0835	56	<.4	11	1.0
413331109245701	18N 106W 07BAD01	124LNEY	SP	77-10-24	0910	<10	1.6	<3.2	1.6
413709109043501	19N 104W 18CCB01	227NGGT	GW	77-10-24	1120	200	1.7	230	.7
415716109360501	23N 108W 24BAA01	124LNEY	SP	77-10-15	1215	<85	<.4	<16	1.0
415641109363601	23N 109W 25BCB01	124LNEY	SP	77-10-15	1400	<68	1.3	<20	5.1
				UINTA COUNTY					
410114110055601	12N 113W 13BCC01	112GLCL	SP	77-10-23	0925	<4.4	<.4	3.2	.4
410659110183701	13N 114W 07CAC01	121BRPK	SP	77-10-22	1640	6.0	<.4	3.5	<.4
410641110074701	13N 115W 16ABA01	124BRDG	SP	77-10-22	1505	6.8	1.4	6.2	1.6
410428110151801	13N 115W 25DBD01	121BRPK	SP	77-10-22	1540	4.6	<.4	2.0	<.4
410732110270701	13N 116W 11AAA01	124BRDG	SP	77-10-22	1425	16	.4	10	1.1

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

RADIOCHEMICAL ANALYSES

STATION NUMBER	DATE OF SAMPLE	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS-SOLVED (UG/L AS U)	URANIUM DIS-SOLVED, EXTRAC-TION (UG/L)
CARBON COUNTY--Continued						
410552107225302	77-10-12	<2.9	<.4	.35	--	.13
410352107304701	77-10-11	<2.5	.7	.24	--	.21
411248107321401	77-10-11	<1.4	1.2	.05	--	.07
411152107305001	77-10-11	5.9	5.6	.12	--	.18
411606107362601	78-03-22	3.7	1.1	.08	--	.07
413058107193001	77-10-13	2.8	2.0	.35	3.6	--
413147107242601	77-10-13	3.4	17	.19	5.2	--
LINCOLN COUNTY--Continued						
415944110305301	77-10-20	3.2	1.6	.14	.9	--
415541110363001	77-10-20	<.7	<.4	.04	.6	--
421509110185301	77-10-18	<.7	<.4	.09	.5	--
421405110275601	77-10-18	.7	.6	.11	--	.53
SUBLETTE COUNTY--Continued						
422312110182001	77-10-19	1.8	<.4	.19	.6	--
422953110242101	77-10-19	2.0	<.4	.10	1.2	--
422807110281601	77-10-19	<.7	<.4	.09	.6	--
424632110020001	77-10-24	<2.8	1.7	.09	3.5	--
431636110005701	77-10-24	16	<.4	4.5	--	.15
SWEETWATER COUNTY--Continued						
410024109520301	77-10-23	5.5	<.4	.51	2.6	--
410525110004201	77-10-23	1.2	.4	.20	2.3	--
411444109482201	77-10-23	11	2.4	.11	36	--
412118109574101	77-10-24	9.2	1.0	.05	25	--
413331109245701	77-10-24	<2.8	1.5	.08	4.3	--
413709109043501	77-10-24	200	.7	20	--	.05
415716109360501	77-10-15	<13	1.1	.14	9.2	--
415641109363601	77-10-15	<17	5.2	.10	19	--
UINTA COUNTY--Continued						
410114110055601	77-10-23	2.5	<.4	.13	2.8	--
410659110183701	77-10-22	2.8	<.4	.14	1.7	--
410641110074701	77-10-22	5.4	1.5	.17	2.4	--
410428110151801	77-10-22	1.6	<.4	.15	.6	--
410732110270701	77-10-22	8.2	1.1	.62	3.3	--

1/ GEOLOGIC UNIT

111SNDD	Sand Dune Deposits
112GLCL	Glacial Deposits
121BRPK	Browns Park Formation
122BSHP	Bishop Conglomerate
124BRDG	Bridger Formation
124GRRV	Green River Formation
124LNEY	Laney Shale Member of Green River Formation
124TPTN	Tipton Shale Member of Green River Formation
124WSTC	Wasatch Formation
211ADVL	Adaville Formation
211ALMD	Almond Formation
211FRNR	Frontier Formation
211HLDR	Hilliard Shale or Formation
211LWIS	Lewis Shale
211MVRD	Mesaverde Formation
217BRRV	Bear River Formation
227NGGT	Nugget Sandstone
361BGRN	Bighorn Dolomite

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

CARBON COUNTY

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                410552107225302 13N 089W 14CB 02
          PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

     DATE                                      OCT 12,77
     TIME                                         1115

     TOTAL CELLS/ML                              20000

     DIVERSITY: DIVISION                           0.0
                .CLASS                             0.0
                ..ORDER                            0.0
                ...FAMILY                          0.0
                ....GENUS                          0.0


                                           CELLS  PER-
      ORGANISM                              /ML   CENT

     CYANOPHYTA (BLUE-GREEN ALGAE)
     .CYANOPHYCEAE
     ..HORMOGONALES
     ...OSCILLATORIACEAE
     ....OSCILLATORIA                      20000#100

     EUGLENOPHYTA (EUGLENOIDS)
     .EUGLENOPHYCEAE
     ..EUGLENALES
     ...EUGLENACEAE
     ....TRACHELOMONAS                         *   0

     NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
           * - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

                        OCT. 12, 1977
                         1115 HOURS

                   PERIPHYTON IDENTIFICATION

   _ORGANISM__NAME_______________   _COMMON__NAME_______

  CYANOPHYTA                        BLUE-GREEN ALGAE
  .CYANOPHYCEAE
  ..HORMOGONALES                    FILAMENTOUS BL-GREEN
  ...OSCILLATORIACEAE
& ....LYNGBYA
& ....OSCILLATORIA

NOTE: & - ESTIMATED DOMINANT ORGANISM: NOT ACTUALLY COUNTED
      ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE
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QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

CARBON COUNTY--Continued

411002107183601 14N 088W 21DAD01 POP SPRINGS
PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 13,77
TIME	1115
TOTAL CELLS/ML	81000
DIVERSITY: DIVISION	0.5
.CLASS	0.5
..ORDER	0.5
...FAMILY	1.2
....GENUS	1.3

ORGANISM	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..TETRASPORALES		
...PALMELLACEAE		
....GLOEOCYSTIS	410	1
..VOLVOCALES		
...CHLAMYDOMONADACEAE		
....CHLAMYDOMONAS	*	0
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...ACHNANTHACEAE		
....ACHNANTHES	3400	4
...DIATOMACEAE		
....DIATOMA	*	0
...FRAGILARIACEAE		
....FRAGILARIA	65000#	80
....SYNEDRA	410	1
...GOMPHONEMATACEAE		
....GOMPHONEMA	*	0
...NAVICULACEAE		
....NAVICULA	*	0
....PINNULARIA	720	1
....STAURONEIS	*	0
...NITZSCHIACEAE		
....NITZSCHIA	2100	3
CYANOPHYTA (BLUE-GREEN ALGAE)		
.CYANOPHYCEAE		
..HORMOGONALES		
...NOSTOCACEAE		
....ANABAENA	3300	4
...OSCILLATORIACEAE		
....OSCILLATORIA	1000	1
....SPIRULINA	3900	5

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

CARBON COUNTY--Continued

411002107183601 14N 088W 21DAD01--Continued

OCT. 13, 1977
1115 HOURS

PERIPHYTON IDENTIFICATION

	_ORGANISM__NAME_______________	_COMMON__NAME_______
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..ULOTRICHALES	
	...MICROSPORACEAE	
	....MICROSPORA	
	..ZYGNEMATALES	
	...DESMIDIACEAE	PLACODERM DESMIDS
	....CLOSTERIUM	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..CENTRALES	CENTRIC
	...COSCINODISCACEAE	
	....MELOSIRA	
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
&	....ACHNANTHES	
	...CYMBELLACEAE	
	....EPITHEMIA	
	...FRAGILARIACEAE	
&	....FRAGILARIA	
	....SYNEDRA	
	...GOMPHONEMATACEAE	
	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
	....PINNULARIA	
	....STAURONEIS	
	...NITZSCHIACEAE	
	....NITZSCHIA	
	...SURIRELLACEAE	
	....SURIRELLA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

CARBON COUNTY--Continued

410826107171101 14N 088W 34CBB01

OCT. 13, 1977
1255 HOURS

IDENTIFICATION OF PERIPHYTON

ORGANISM NAME	COMMON NAME
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..ULOTRICHALES	
...MICROSPORACEAE	
....MICROSPORA	
..ZYGNEMATALES	
...DESMIDIACEAE	PLACODERM DESMIDS
....COSMARIUM	
...ZYGNEMATACEAE	
& ....SPIROGYRA	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...ACHNANTHACEAE	
....ACHNANTHES	
....RHOICOSPHENIA	
...CYMBELLACEAE	
....AMPHORA	
....CYMBELLA	
....EPITHEMIA	
....RHOPALODIA	
...FRAGILARIACEAE	
....FRAGILARIA	
...GOMPHONEMATACEAE	
....GOMPHONEMA	
...MERIDIONACEAE	
....MERIDION	
...NAVICULACEAE	NAVICULOID
....ANOMOEONEIS	
....CALONEIS	
....DIPLONEIS	
....FRUSTULIA	
& ....NAVICULA	
....NEIDIUM	
....PINNULARIA	
....STAURONEIS	
...NITZSCHIACEAE	
....HANTZSCHIA	
....NITZSCHIA	
CYANOPHYTA	BLUE-GREEN ALGAE
.CYANOPHYCEAE	
..HORMOGONALES	FILAMENTOUS BL-GREEN
...NOSTOCACEAE	
....ANABAENA	
...OSCILLATORIACEAE	
....OSCILLATORIA	
EUGLENOPHYTA	EUGLENOIDS
.EUGLENOPHYCEAE	
..EUGLENALES	
...EUGLENACEAE	
....EUGLENA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

CARBON COUNTY--Continued

411258107321701 14N 090W 05ADC01

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 12,77
TIME	1550
TOTAL CELLS/ML	800
DIVERSITY: DIVISION	0.9
.CLASS	0.9
..ORDER	1.0
...FAMILY	2.0
....GENUS	2.0

ORGANISM	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..TETRASPORALES		
...PALMELLACEAE		
....GLOEOCYSTIS	14	2
..VOLVOCALES		
...CHLAMYDOMONADACEAE		
....CHLAMYDOMONAS	7	1
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...ACHNANTHACEAE		
....ACHNANTHES	50	6
...GOMPHONEMATACEAE		
....GOMPHONEMA	21	3
...NAVICULACEAE		
....NAVICULA	110	13
...NITZSCHIACEAE		
....NITZSCHIA	490#	61
CRYPTOPHYTA (CRYPTOMONADS)		
.CRYPTOPHYCEAE		
..CRYPTOMONADALES		
...CRYPTOMONADACEAE		
....CRYPTOMONAS	7	1
CYANOPHYTA (BLUE-GREEN ALGAE)		
.CYANOPHYCEAE		
..CHAMAESIPHONALES		
...CHAMAESIPHONACEAE		
....ENTOPHYSALIS	57	7
..HORMOGONALES		
...OSCILLATORIACEAE		
....LYNGBYA	43	5
EUGLENOPHYTA (EUGLENOIDS)		
.EUGLENOPHYCEAE		
..EUGLENALES		
...EUGLENACEAE		
....EUGLENA	7	1

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

OCT. 12. 1977
1550 HOURS

PERIPHYTON IDENTIFICATION

_ORGANISM__NAME_______________	_COMMON__NAME_______
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..ULOTRICHALES	
...CHAETOPHORACEAE	
& ....CHAETOPHORA	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...ACHNANTHACEAE	
& ....ACHNANTHES	
...GOMPHONEMATACEAE	
& ....GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
& ....NAVICULA	
...NITZSCHIACEAE	
& ....NITZSCHIA	
CYANOPHYTA	BLUE-GREEN ALGAE
.CYANOPHYCEAE	
..HORMOGONALES	FILAMENTOUS BL-GREEN
...OSCILLATORIACEAE	
& ....LYNGBYA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING. INVERTED MICROSCOPE

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

CARBON COUNTY--Continued

411149107534401 14N 093W 08CBC01

OCT. 12, 1977
1500 HOURS

IDENTIFICATION OF PERIPHYTON

_ORGANISM__NAME	_COMMON__NAME
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..VOLVOCALES	
...CHLAMYDOMONADACEAE	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...CYMBELLACEAE	
....CYMBELLA	
....RHOPALODIA	
...NAVICULACEAE	NAVICULOID
& ....NAVICULA	
...NITZSCHIACEAE	
....NITZSCHIA	
CYANOPHYTA	BLUE-GREEN ALGAE
.CYANOPHYCEAE	
..CHROCCOCCALES	COCCOID BLUE-GREENS
...CHROCCOCCAEAE	
& ....AGMENELLUM	
..HORMOGONALES	FILAMENTOUS BL-GREEN
...NOSTOCACEAE	
....ANABAENA	
...OSCILLATORIACEAE	
& ....OSCILLATORIA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

CARBON COUNTY--Continued

413058107193001 18N 088W 20DDB01
PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 13,77	
TIME	1730	
TOTAL CELLS/ML	1200	
DIVERSITY: DIVISION	0.8	
.CLASS	0.8	
..ORDER	1.0	
...FAMILY	2.1	
....GENUS	2.2	

ORGANISM	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..ULOTRICHALES		
...CHAETOPHORACEAE		
....CHAETOPHORA	150	13
..ZYGNEMATALES		
...ZYGNEMATACEAE		
....MOUGEOTIA	78	7
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...ACHNANTHACEAE		
....ACHNANTHES	29	3
...GOMPHONEMATACEAE		
....GOMPHONEMA	190#	17
...NAVICULACEAE		
....NAVICULA	58	5
...NITZSCHIACEAE		
....HANTZSCHIA	10	1
....NITZSCHIA	590#	51
...SURIRELLACEAE		
....SURIRELLA	39	3
EUGLENOPHYTA (EUGLENOIDS)		
.EUGLENOPHYCEAE		
..EUGLENALES		
...EUGLENACEAE		
....EUGLENA	10	1

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

OCT. 13. 1977
1730 HOURS

PERIPHYTON IDENTIFICATION

_ORGANISM__NAME	_COMMON__NAME
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...ACHNANTHACEAE	
....ACHNANTHES	
...CYMBELLACEAE	
....AMPHORA	
....CYMBELLA	
....EPITHEMIA	
...FRAGILARIACEAE	
& ....FRAGILARIA	
....SYNEDRA	
...GOMPHONEMATACEAE	
& ....GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
....FRUSTULIA	
....NAVICULA	
....PINNULARIA	
....STAURONEIS	
...NITZSCHIACEAE	
& ....NITZSCHIA	
...SURIRELLACEAE	
....CYMATOPLEURA	
....SURIRELLA	
CYANOPHYTA	BLUE-GREEN ALGAE
.CYANOPHYCEAE	
..HORMOGONALES	FILAMENTOUS BL-GREEN
...OSCILLATORIACEAE	
& ....OSCILLATORIA	

NOTE: & - ESTIMATED DOMINANT ORGANISM: NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

CARBON COUNTY--Continued

413147107242601 18N 089W 15C0801
PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 13,77
TIME	1600
TOTAL CELLS/ML	980
DIVERSITY: DIVISION	1.4
.CLASS	1.4
..ORDER	1.8
...FAMILY	2.1
....GENUS	2.4

ORGANISM	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..VOLVOCALES		
...CHLAMYDOMONADACEAE		
....CHLAMYDOMONAS	350#	36
..ZYGNEMATALES		
...ZYGNEMATACEAE		
....MOUGEOTIA	140	14
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...NAVICULACEAE		
....NAVICULA	210#	21
....PINNULARIA	100	11
...NITZSCHIACEAE		
....NITZSCHIA	100	11
CRYPTOPHYTA (CRYPTOMONADS)		
.CRYPTOPHYCEAE		
..CRYPTOMONADALES		
...CRYPTOCHRYSIDACEAE		
....CHROOMONAS	35	4
EUGLENOPHYTA (EUGLENOIDS)		
.EUGLENOPHYCEAE		
..EUGLENALES		
...EUGLENACEAE		
....EUGLENA	35	4

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

OCT. 13, 1977
1600 HOURS

PERIPHYTON IDENTIFICATION

_ORGANISM__NAME_	_COMMON__NAME_
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..ZYGNEMATALES	
...ZYGNEMATACEAE	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...CYMBELLACEAE	
....RHOPALODIA	
...NAVICULACEAE	NAVICULOID
....CALONEIS	
....GYROSIGMA	
& ....NAVICULA	
....PINNULARIA	
....STAURONEIS	
...NITZSCHIACEAE	
....NITZSCHIA	
...SURIRELLACEAE	
....CYMATOPLEURA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

CARBON COUNTY--Continued

413205107265001 18N 089W 17BCD01
PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 13,77
TIME	1445
TOTAL CELLS/ML	2400
DIVERSITY: DIVISION	0.8
.CLASS	0.8
..ORDER	0.8
...FAMILY	1.0
....GENUS	1.1

ORGANISM	CELLS /ML	PER- CENT
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...NAVICULACEAE		
....GYROSIGMA	71	3
....NAVICULA	490#	21
...NITZSCHIACEAE		
....NITZSCHIA	71	3
CYANOPHYTA (BLUE-GREEN ALGAE)		
.CYANOPHYCEAE		
..HORMOGONALES		
...OSCILLATORIACEAE		
....OSCILLATORIA	1800#	74

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

OCT. 13, 1977
1445 HOURS

PERIPHYTON IDENTIFICATION

_ORGANISM__NAME_______________	_COMMON__NAME_______
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..ZYGNEMATALES	
...ZYGNEMATACEAE	
& ....SPIROGYRA	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...CYMBELLACEAE	
....CYMBELLA	
....EPITHEMIA	
....RHOPALODIA	
...FRAGILARIACEAE	
....SYNEDRA	
...GOMPHONEMATACEAE	
....GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
....GYROSIGMA	
....MASTOGLOIA	
....NAVICULA	
....PINNULARIA	
....STAURONEIS	
...NITZSCHIACEAE	
....NITZSCHIA	
...SURIRELLACEAE	
....SURIRELLA	
CYANOPHYTA	BLUE-GREEN ALGAE
.CYANOPHYCEAE	
..HORMOGONALES	FILAMENTOUS BL-GREEN
RHODOPHYTA	RED ALGAE
.RHODOPHYCEAE	
..BANGIALES	
...ERYTHROTRICHIACEAE	
....COMPSOPOGON	

NOTE: & - ESTIMATED DOMINANT ORGANISM: NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

LINCOLN COUNTY

415509110355501 22N 116W 05AAD01
PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 20,77
TIME	1100
TOTAL CELLS/ML	3100
DIVERSITY: DIVISION	1.2
.CLASS	1.2
..ORDER	1.2
...FAMILY	2.0
....GENUS	2.6

ORGANISM	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..ZYGNEMATALES		
...ZYGNEMATACEAE		
....SPIROGYRA	170	6
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...CYMBELLACEAE		
....EPITHEMIA	87	3
...FRAGILARIACEAE		
....SYNEDRA	170	6
...NAVICULACEAE		
....GYROSIGMA	87	3
....NAVICULA	260	8
...NITZSCHIACEAE		
....HANTZSCHIA	87	3
....NITZSCHIA	1200#	39
CYANOPHYTA (BLUE-GREEN ALGAE)		
.CYANOPHYCEAE		
..HORMOGONALES		
...OSCILLATORIACEAE		
....LYNGBYA	700#	22
....OSCILLATORIA	350	11

415512110414501 22N 117W 04ABC01
PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 20,77
TIME	1050
TOTAL CELLS/ML	400
DIVERSITY: DIVISION	1.4
.CLASS	1.4
..ORDER	1.4
...FAMILY	1.5
....GENUS	1.5

ORGANISM	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..ZYGNEMATALES		
...ZYGNEMATACEAE		
....MOUGEOTIA	160#	39
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...ACHNANTHACEAE		
....ACHNANTHES	11	3
...FRAGILARIACEAE		
....SYNEDRA	6	1
...NITZSCHIACEAE		
....NITZSCHIA	22	6
CYANOPHYTA (BLUE-GREEN ALGAE)		
.CYANOPHYCEAE		
..HORMOGONALES		
...OSCILLATORIACEAE		
....OSCILLATORIA	210#	51

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

LINCOLN COUNTY--Continued

415512110414501 22N 117W 04ABC01--Continued

OCT. 20, 1977
1050 HOURS

PERIPHYTON IDENTIFICATION

ORGANISM NAME	COMMON NAME
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..CHLOROCOCCALES	
...SCENEDESMACEAE	
....SCENEDESMUS	
..ZYGNEMATALES	
...ZYGNEMATACEAE	
....MOUGEOTIA	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...ACHNANTHACEAE	
....ACHNANTHES	
...FRAGILARIACEAE	
....SYNEDRA	
...MERIDIONACEAE	
....MERIDION	
...NAVICULACEAE	NAVICULOID
& ....NAVICULA	
....NEIDIUM	
....PINNULARIA	
....STAURONEIS	
...NITZSCHIACEAE	
....DENTICULA	
....NITZSCHIA	
CYANOPHYTA	BLUE-GREEN ALGAE
.CYANOPHYCEAE	
..HORMOGONALES	FILAMENTOUS BL-GREEN
...OSCILLATORIACEAE	
....OSCILLATORIA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: SLIDE MOUNTING

415944110305301 23N 115W 06CCD01

OCT. 20, 1977
0910 HOURS

IDENTIFICATION OF PERIPHYTON

ORGANISM NAME	COMMON NAME
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...ACHNANTHACEAE	
....ACHNANTHES	
....RHOICOSPHENIA	
...CYMBELLACEAE	
....AMPHORA	
....CYMBELLA	
....EPITHEMIA	
....RHOPALODIA	
...DIATOMACEAE	
& ....DIATOMA	
...FRAGILARIACEAE	
....FRAGILARIA	
...NAVICULACEAE	NAVICULOID
....CALONEIS	
....DIPLONEIS	
....GYROSIGMA	
& ....NAVICULA	
....PINNULARIA	
...NITZSCHIACEAE	
....NITZSCHIA	
...SURIRELLACEAE	
....SURIRELLA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

LINCOLN COUNTY--Continued

415645110281701 23N 115W 29ACD01
PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 17,77
TIME	1320
TOTAL CELLS/ML	130
DIVERSITY: DIVISION	0.0
.CLASS	0.0
..ORDER	0.0
...FAMILY	0.4
....GENUS	0.9

ORGANISM	CELLS /ML	PER- CENT
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...ACHNANTHACEAE		
....ACHNANTHES	100#	80
....COCCONEIS	17	13
...NITZSCHIACEAE		
....NITZSCHIA	8	7

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

OCT. 17, 1977
1320 HOURS

IDENTIFICATION OF PERIPHYTON

ORGANISM NAME	COMMON NAME
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...ACHNANTHACEAE	
& ....ACHNANTHES	
& ....COCCONEIS	
...CYMBELLACEAE	
....CYMBELLA	
...DIATOMACEAE	
& ....DIATOMA	
...FRAGILARIACEAE	
....FRAGILARIA	
...NAVICULACEAE	NAVICULOID
....DIPLONEIS	
....NAVICULA	
...NITZSCHIACEAE	
....NITZSCHIA	
CYANOPHYTA	BLUE-GREEN ALGAE
.CYANOPHYCEAE	
..HORMOGONALES	FILAMENTOUS BL-GREEN
...OSCILLATORIACEAE	
& ....MICROCOLEUS	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

LINCOLN COUNTY--Continued

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              415541110363001 23N 116W 32CAC01
         PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

        DATE                                  OCT 20,77
        TIME                                     1025

        TOTAL CELLS/ML                           1500

        DIVERSITY: DIVISION                       1.0
                   .CLASS                         1.0
                   ..ORDER                        1.3
                   ...FAMILY                      2.0
                   ....GENUS                      2.0


                                              CELLS  PER-
         ORGANISM                              /ML   CENT

        CHLOROPHYTA (GREEN ALGAE)
        .CHLOROPHYCEAE
        ..CHLOROCOCCALES
        ...SCENEDESMACEAE
        ....ACTINASTRUM                        140     9
        ..OEDOGONIALES
        ...OEDOGONIACEAE
        ....OEDOGONIUM                         670# 43

        CHRYSOPHYTA
        .BACILLARIOPHYCEAE
        ..PENNALES
        ...ACHNANTHACEAE
        ....ACHNANTHES                         110     7

        ...DIATOMACEAE
        ....DIATOMA                             18     1
        ...FRAGILARIACEAE
        ....FRAGILARIA                         440# 28
        ...NAVICULACEAE
        ....NAVICULA                           180   11

        NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
              * - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

                         OCT. 20. 1977
                          1025 HOURS

                    PERIPHYTON IDENTIFICATION

      _ORGANISM__NAME_______________   _COMMON__NAME_______

     CHRYSOPHYTA
     .BACILLARIOPHYCEAE                DIATOMS
     ..PENNALES                        PENNATE
     ...ACHNANTHACEAE
   & ....ACHNANTHES
     ...CYMBELLACEAE
   & ....CYMBELLA
     ...DIATOMACEAE
   & ....DIATOMA
     ...FRAGILARIACEAE
   & ....FRAGILARIA
     ...GOMPHONEMATACEAE
     ....GOMPHONEMA
     ...NAVICULACEAE                   NAVICULOID
     ....CALONEIS
     ....FRUSTULIA
     ....NAVICULA
     ...NITZSCHIACEAE
     ....NITZSCHIA
     CYANOPHYTA                        BLUE-GREEN ALGAE
     .CYANOPHYCEAE
     ..HORMOGONALES                    FILAMENTOUS BL-GREEN
     ...OSCILLATORIACEAE
     ....OSCILLATORIA

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
     ANALYSIS METHOD: GLASS CHAMBER(12MM CIRC), 200-X MICROSCOPE
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QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

LINCOLN COUNTY--Continued

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               420123110025201 24N 111W 30DDD01
          PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

     DATE                                     OCT 18,77
     TIME                                       1630

     TOTAL CELLS/ML                                0

     DIVERSITY: DIVISION                         0.0
               .CLASS                            0.0
               ..ORDER                           0.0
               ...FAMILY                         0.0
               ....GENUS                         0.0


                                         CELLS  PER-
      ORGANISM                            /ML   CENT

     NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
           * - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%
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                    OCT. 18, 1977
                     1630 HOURS

                IDENTIFICATION OF PERIPHYTON

  _ORGANISM__NAME________________    _COMMON__NAME_______

   CHLOROPHYTA                        GREEN ALGAE
   .CHLOROPHYCEAE
   ..CHLOROCOCCALES
   ...OOCYSTACEAE
   ....ANKISTRODESMUS
   ...SCENEDESMACEAE
   ....SCENEDESMUS
   ..CLADOPHORALES
   ...CLADOPHORACEAE
 & ....CLADOPHORA
   CHRYSOPHYTA
   .BACILLARIOPHYCEAE                 DIATOMS
   ..CENTRALES                        CENTRIC
   ...COSCINODISCACEAE
   ....MELOSIRA
   ..PENNALES                         PENNATE
   ...ACHNANTHACEAE
 & ....ACHNANTHES
   ...CYMBELLACEAE
   ....AMPHORA
   ....CYMBELLA
   ...DIATOMACEAE
 & ....DIATOMA
   ...GOMPHONEMATACEAE
   ....GOMPHONEMA
   ...NAVICULACEAE                    NAVICULOID
   ....CALONEIS
 & ....NAVICULA
   ....PINNULARIA
   ...NITZSCHIACEAE
   ....DENTICULA
 & ....NITZSCHIA
   ...SURIRELLACEAE
   ....SURIRELLA
   CYANOPHYTA                         BLUE-GREEN ALGAE
   .CYANOPHYCEAE
   ..CHROCCOCCALES                    COCCOID BLUE-GREENS
   ...CHROCCOCCACEAE

   ....AGMENELLUM
 & ....ANACYSTIS
   ..HORMOGONALES                     FILAMENTOUS BL-GREEN
   ...NOSTOCACEAE
   ....ANABAENA
   ...OSCILLATORIACEAE
   ....OSCILLATORIA

 NOTE: & - ESTIMATED DOMINANT ORGANISM; ACTUALLY COUNTED
       ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE
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QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

LINCOLN COUNTY--Continued

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          420103110040401 24N 112W 25DCD01
PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

     DATE                                OCT 18,77
     TIME                                   1600

     TOTAL CELLS/ML                            0

     DIVERSITY: DIVISION                     0.0
                .CLASS                       0.0
                ..ORDER                      0.0
                ...FAMILY                    0.0
                ....GENUS                    0.0


      ORGANISM                          CELLS  PER-
                                         /ML   CENT

     NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
           * - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%
```

OCT. 18, 1977
1600 HOURS

IDENTIFICATION OF PERIPHYTON

ORGANISM NAME	COMMON NAME
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...ACHNANTHACEAE	
....ACHNANTHES	
...CYMBELLACEAE	
....RHOPALODIA	
...DIATOMACEAE	
....DIATOMA	
...GOMPHONEMATACEAE	
....GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
....PINNULARIA	
...NITZSCHIACEAE	
§ ....NITZSCHIA	
CYANOPHYTA	BLUE-GREEN ALGAE
.CYANOPHYCEAE	
..HORMOGONALES	FILAMENTOUS BL-GREEN
...NOSTOCACEAE	
....ANABAENA	

NOTE: § - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

LINCOLN COUNTY--Continued

420023110285401 24N 115W 32CBD01

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PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

     DATE                               OCT 20,77
     TIME                                  0850

     TOTAL CELLS/ML                        1500

     DIVERSITY: DIVISION                    1.6
                .CLASS                      1.9
                ..ORDER                     2.3
                ...FAMILY                   2.7
                ....GENUS                   2.8

                                      CELLS  PER-
      ORGANISM                         /ML   CENT

     CHLOROPHYTA (GREEN ALGAE)
     .CHLOROPHYCEAE
     ..CHLOROCOCCALES
     ...OOCYSTACEAE
     ....CHLORELLA                       52    3
     ..ULOTRICHALES
     ...ULOTRICHACEAE
     ....ULOTHRIX                       280#  19

     CHRYSOPHYTA
     .BACILLARIOPHYCEAE
     ..PENNALES
     ...ACHNANTHACEAE
     ....ACHNANTHES                      26    2

     ....COCCONEIS                        9    1
     ....RHOICOSPHENIA                   52    3
     ...CYMBELLACEAE
     ....AMPHORA                         43    3
     ...NAVICULACEAE
     ....NAVICULA                        60    4
     ...NITZSCHIACEAE
     ....NITZSCHIA                       95    6
     ...SURIRELLACEAE
     ....SURIRELLA                       17    1
     .CHRYSOPHYCEAE
     ..CHRYSOMONADALES
     ...CHROMULINACEAE
     ....CHRYSOCOCCUS                    17    1
     .XANTHOPHYCEAE
     ..HETEROCOCCALES
     ...CENTRITRACTACEAE
     ....BUMILLERIOPSIS                  26    2
     ..HETEROTRICHALES
     ...TRIBONEMATACEAE
     ....TRIBONEMA                       86    6

     CYANOPHYTA (BLUE-GREEN ALGAE)
     .CYANOPHYCEAE
     ..CHROOCOCCALES
     ...CHROOCOCCACEAE
     ....ANACYSTIS                       52    3
     ..HORMOGONALES
     ...OSCILLATORIACEAE
     ....OSCILLATORIA                   670#  45

     EUGLENOPHYTA (EUGLENOIDS)
     .EUGLENOPHYCEAE
     ..EUGLENALES
     ...EUGLENACEAE
     ....EUGLENA                          9    1
     ...PETALOMONADACEAE
     ....CALCYCIMONAS                     9    1

     NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
           * - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%
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QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

LINCOLN COUNTY--Continued

420928110283201 25N 115W 14BAC01

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PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

     DATE
     TIME                                  OCT 18,77
                                              0945

     TOTAL CELLS/ML
                                              4600

     DIVERSITY: DIVISION
                .CLASS                        0.9
                ..ORDER                       0.9
                ...FAMILY                     0.9
                ....GENUS                     1.6
                                              1.6


      ORGANISM                            CELLS  PER-
                                           /ML   CENT

     CHLOROPHYTA (GREEN ALGAE)
     .CHLOROPHYCEAE
     ..ULOTRICHALES
     ...MICROSPORACEAE
     ....MICROSPORA
                                          1600# 35
     CHRYSOPHYTA
     .BACILLARIOPHYCEAE
     ..PENNALES
     ...ACHNANTHACEAE
     ....ACHNANTHES
                                           710# 15
     ...CYMBELLACEAE
     ....CYMBELLA
     ...NITZSCHIACEAE                      180   4
     ....NITZSCHIA
                                          2100# 46

     NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
           * - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%
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                        OCT. 18, 1977
                         0945 HOURS

                 IDENTIFICATION OF PERIPHYTON

     _ORGANISM__NAME________________   _COMMON__NAME_______

     CHLOROPHYTA                        GREEN ALGAE
     .CHLOROPHYCEAE
     ..ULOTRICHALES
     ...MICROSPORACEAE
     ....MICROSPORA
     ..ZYGNEMATALES
     ...DESMIDIACEAE                    PLACODERM DESMIDS
     ....CLOSTERIUM
     ...ZYGNEMATACEAE
   & ....SPIROGYRA
     CHRYSOPHYTA
     .BACILLARIOPHYCEAE                 DIATOMS
     ..PENNALES                         PENNATE
     ...ACHNANTHACEAE
     ....ACHNANTHES
     ...CYMBELLACEAE
     ....AMPHORA
     ....CYMBELLA
     ....EPITHEMIA
     ....RHOPALODIA
     ...NAVICULACEAE                    NAVICULOID
     ....NAVICULA
     ...NITZSCHIACEAE
   & ....NITZSCHIA
     CYANOPHYTA                         BLUE-GREEN ALGAE
     .CYANOPHYCEAE
     ..HORMOGONALES                     FILAMENTOUS BL-GREEN
     ...NOSTOCACEAE
   & ....ANABAENA
     ...RIVULARIACEAE
     ....CALOTHRIX
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QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

LINCOLN COUNTY--Continued

420928110283201 25N 115W 14BAC01--Continued

OCT. 20. 1977
0850 HOURS

PERIPHYTON IDENTIFICATION

_ORGANISM__NAME________________	_COMMON__NAME_______
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..ULOTRICHALES	
...MICROSPORACEAE	
....MICROSPORA	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...ACHNANTHACEAE	
....ACHNANTHES	
....RHOICOSPHENIA	
...DIATOMACEAE	
....DIATOMA	
...GOMPHONEMATACEAE	
....GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
....CALONEIS	
....GYROSIGMA	
....NAVICULA	
...SURIRELLACEAE	
....SURIRELLA	

NOTE: ANALYSIS METHOD: SLIDE MOUNTING

421509110185301 26N 113W 07BDA01

OCT. 18, 1977
1015 HOURS

IDENTIFICATION OF PERIPHYTON

-ORGANISM__NAME________________	_COMMON__NAME_______
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...ACHNANTHACEAE	
& ....ACHNANTHES	
...GOMPHONEMATACEAE	
....GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
....FRUSTULIA	
& ....NAVICULA	
...NITZSCHIACEAE	
& ....NITZSCHIA	
...SURIRELLACEAE	
....SURIRELLA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

LINCOLN COUNTY--Continued

421504110183101 26N 113W 07CDD01
PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 18,77
TIME	1120
TOTAL CELLS/ML	52
DIVERSITY: DIVISION	0.0
.CLASS	0.0
..ORDER	0.0
...FAMILY	0.4
....GENUS	0.4

ORGANISM	CELLS /ML	PER- CENT
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...ACHNANTHACEAE		
....ACHNANTHES	4	8
...NITZSCHIACEAE		
....NITZSCHIA	47#	92
...SURIRELLACEAE		
....SURIRELLA	*	0

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

OCT. 18, 1977
1120 HOURS

IDENTIFICATION OF PERIPHYTON

ORGANISM NAME	COMMON NAME
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...ACHNANTHACEAE	
& ....ACHNANTHES	
...CYMBELLACEAE	
....AMPHORA	
...NAVICULACEAE	NAVICULOID
....CALONEIS	
...NITZSCHIACEAE	
....NITZSCHIA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

LINCOLN COUNTY--Continued

421405110275601 26N 115W 15CDB01
PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 18,77
TIME	0930
TOTAL CELLS/ML	320
DIVERSITY: DIVISION	0.2
.CLASS	0.2
..ORDER	0.2
...FAMILY	1.6
....GENUS	1.6

ORGANISM	CELLS /ML	PER- CENT
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...ACHNANTHACEAE		
....ACHNANTHES	90#	28
....COCCONEIS	*	0
...CYMBELLACEAE		
....CYMBELLA	*	0
....EPITHEMIA	*	0
....RHOPALODIA	*	0
...GOMPHONEMATACEAE		
....GOMPHONEMA	11	3
...NAVICULACEAE		
....NAVICULA	22	7
...NITZSCHIACEAE		
....NITZSCHIA	190#	59
CYANOPHYTA (BLUE-GREEN ALGAE)		
.CYANOPHYCEAE		
..HORMOGONALES		
...NOSTOCACEAE		
....ANABAENA	11	3

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

OCT. 18, 1977
0930 HOURS

IDENTIFICATION OF PERIPHYTON

	ORGANISM NAME	COMMON NAME
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
§	....ACHNANTHES	
	....COCCONEIS	
	...CYMBELLACEAE	
	....RHOPALODIA	
	...FRAGILARIACEAE	
	....FRAGILARIA	
	...GOMPHONEMATACEAE	
	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
	....GYROSIGMA	
	....NAVICULA	
	....PINNULARIA	
	...NITZSCHIACEAE	
§	....NITZSCHIA	
	...SURIRELLACEAE	
	....SURIRELLA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.CYANOPHYCEAE	
	..HORMOGONALES	FILAMENTOUS BL-GREEN
	...NOSTOCACEAE	
	....ANABAENA	

NOTE: § - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

LINCOLN COUNTY--Continued

421211110261901 26N 115W 26ADC01
PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 18,77
TIME	1015
TOTAL CELLS/ML	75000
DIVERSITY: DIVISION	1.4
.CLASS	1.4
..ORDER	1.4
...FAMILY	2.0
....GENUS	2.0

ORGANISM	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..VOLVOCALES		
...CHLAMYDOMONADACEAE		
....CHLAMYDOMONAS	5000	7
...PHACOTACEAE		
....PTEROMONAS	380	1
..ZYGNEMATALES		
...ZYGNEMATACEAE		
....SPIROGYRA	*	0
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...ACHNANTHACEAE		
....ACHNANTHES	760	1
...CYMBELLACEAE		
....AMPHORA	380	1
....EPITHEMIA	*	0
...FRAGILARIACEAE		
....FRAGILARIA	2300	3
...GOMPHONEMATACEAE		
....GOMPHONEMA	*	0
...NAVICULACEAE		
....FRUSTULIA	*	0
....NAVICULA	6500	9
....NEIDIUM	*	0
....PINNULARIA	*	0
...NITZSCHIACEAE		
....NITZSCHIA	24000#	32
...SURIRELLACEAE		
....SURIRELLA	380	1
CYANOPHYTA (BLUE-GREEN ALGAE)		
.CYANOPHYCEAE		
..HORMOGONALES		
...OSCILLATORIACEAE		
....OSCILLATORIA	34000#	46
EUGLENOPHYTA (EUGLENOIDS)		
.EUGLENOPHYCEAE		
..EUGLENALES		
...EUGLENACEAE		
....EUGLENA	760	1

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

LINCOLN COUNTY--Continued

421211110261901 26N 115W 26ADC01--Continued

OCT. 18, 1977
1015 HOURS

IDENTIFICATION OF PERIPHYTON

ORGANISM NAME	COMMON NAME
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..OEDOGONIALES	
...OEDOGONIACEAE	
....OEDOGONIUM	
..VOLVOCALES	
...CHLAMYDOMONADACEAE	
....CHLAMYDOMONAS	
..ZYGNEMATALES	
...ZYGNEMATACEAE	
& ....SPIROGYRA	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...ACHNANTHACEAE	
....ACHNANTHES	
...CYMBELLACEAE	
....AMPHORA	
....CYMBELLA	
....EPITHEMIA	
....RHOPALODIA	
...FRAGILARIACEAE	
....FRAGILARIA	
....SYNEDRA	
...GOMPHONEMATACEAE	
....GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
....CALONEIS	
& ....NAVICULA	
....NEIDIUM	
....PINNULARIA	
....STAURONEIS	
...NITZSCHIACEAE	
& ....NITZSCHIA	
...SURIRELLACEAE	
....SURIRELLA	
EUGLENOPHYTA	EUGLENOIDS
.EUGLENOPHYCEAE	
..EUGLENALES	
...EUGLENACEAE	
....EUGLENA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

SUBLETTE COUNTY

422312110182001 28N 113W 30ADA01
PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 19,77
TIME	1040
TOTAL CELLS/ML	2800
DIVERSITY: DIVISION	0.9
.CLASS	1.0
..ORDER	1.1
...FAMILY	1.3
....GENUS	1.5

ORGANISM	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...OOCYSTACEAE		
....ANKISTRODESMUS	*	0
...SCENEDESMACEAE		
....SCENEDESMUS	16	1
..TETRASPORALES		
...COCCOMYXACEAE		
....ELAKATOTHRIX	16	1
...PALMELLACEAE		
....GLOEOCYSTIS	*	0
..VOLVOCALES		
...CHLAMYDOMONADACEAE		
....CHLAMYDOMONAS	*	0
..ZYGNEMATALES		
...DESMIDIACEAE		
....COSMARIUM	56	2
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...ACHNANTHACEAE		
....ACHNANTHES	*	0
....RHOICOSPHENIA	*	0
...CYMBELLACEAE		
....EPITHEMIA	*	0
...FRAGILARIACEAE		
....FRAGILARIA	2100#	73
....SYNEDRA	60	2
...NITZSCHIACEAE		
....NITZSCHIA	24	1
.XANTHOPHYCEAE		
..HETEROCOCCALES		
...MISCHOCOCCACEAE		
....MISCHOCOCCUS	64	2
CYANOPHYTA (BLUE-GREEN ALGAE)		
.CYANOPHYCEAE		
..HORMOGONALES		
...NOSTOCACEAE		
....APHANIZOMENON	84	3
...OSCILLATORIACEAE		
....LYNGBYA	400	14

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

QUALITY OF GROUND WATER

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

SUBLETTE COUNTY--Continued

422312110182001 28N 113W 30ADA01--Continued

OCT. 19, 1977
1040 HOURS

IDENTIFICATION OF PERIPHYTON

ORGANISM NAME	COMMON NAME
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..CHLOROCOCCALES	
...CHARACIACEAE	
....CHARACIUM	
...OOCYSTACEAE	
....NEPHROCYTIUM	
...SCENEDESMACEAE	
....SCENEDESMUS	
..OEDOGONIALES	
...OEDOGONIACEAE	
....OEDOGONIUM	
..TETRASPORALES	
...COCCOMYXACEAE	
....ELAKATOTHRIX	
...PALMELLACEAE	
....GLOEOCYSTIS	
..ZYGNEMATALES	
...DESMIDIACEAE	PLACODERM DESMIDS
....COSMARIUM	
...ZYGNEMATACEAE	
& ....MOUGEOTIA	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...ACHNANTHACEAE	
....ACHNANTHES	
...CYMBELLACEAE	
....CYMBELLA	
....EPITHEMIA	
....RHOPALODIA	
...DIATOMACEAE	
& ....DIATOMA	
...FRAGILARIACEAE	
& ....FRAGILARIA	
....SYNEDRA	
...GOMPHONEMATACEAE	
....GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
....NAVICULA	
...NITZSCHIACEAE	
& ....NITZSCHIA	
CYANOPHYTA	BLUE-GREEN ALGAE
.CYANOPHYCEAE	
..HORMOGONALES	FILAMENTOUS BL-GREEN
...NOSTOCACEAE	
....ANABAENA	
...OSCILLATORIACEAE	
....LYNGBYA	
EUGLENOPHYTA	EUGLENOIDS
.EUGLENOPHYCEAE	
..EUGLENALES	
...EUGLENACEAE	
....EUGLENA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

SUBLETTE COUNTY--Continued

422632110205201 28N 114W 02DBB01
PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE .	OCT 19,77
TIME	0930
TOTAL CELLS/ML	85000
DIVERSITY: DIVISION	1.1
.CLASS	1.1
..ORDER	1.1
...FAMILY	1.9
....GENUS	2.4

ORGANISM	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..VOLVOCALES		
...CHLAMYDOMONADACEAE		
....CHLAMYDOMONAS	470	1
..ZYGNEMATALES		
...DESMIDIACEAE		
....COSMARIUM	470	1
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...NAVICULACEAE		
....CALONEIS	470	1
....GYROSIGMA	1400	2
....NAVICULA	2300	3
....PINNULARIA	2800	3
...NITZSCHIACEAE		
....NITZSCHIA	22000#	26
...SURIRELLACEAE		
....SURIRELLA	16000#	19
CYANOPHYTA (BLUE-GREEN ALGAE)		
.CYANOPHYCEAE		
..HORMOGONALES		
...NOSTOCACEAE		
....ANABAENA	27000#	32
....NODULARIA	12000	14

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

OCT. 19. 1977
0930 HOURS

PERIPHYTON IDENTIFICATION

_ORGANISM__NAME_______________	_COMMON__NAME_______
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...FRAGILARIACEAE	
....SYNEDRA	
...NAVICULACEAE	NAVICULOID
....PINNULARIA	
...SURIRELLACEAE	
....SURIRELLA	
CYANOPHYTA	BLUE-GREEN ALGAE
.CYANOPHYCEAE	
..HORMOGONALES	FILAMENTOUS BL-GREEN
...NOSTOCACEAE	
& ....ANABAENA	

NOTE: & - ESTIMATED DOMINANT ORGANISM: NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING. INVERTED MICROSCOPE

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

SUBLETTE COUNTY--Continued

422547110234501 28N 114W 09BDA01
PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 19,77
TIME	1015
TOTAL CELLS/ML	200
DIVERSITY: DIVISION	0.5
.CLASS	0.5
..ORDER	1.3
...FAMILY	2.2
....GENUS	2.2

ORGANISM	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..VOLVOCALES		
...CHLAMYDOMONADACEAE		
....CHLAMYDOMONAS	5	2
..ZYGNEMATALES		
...ZYGNEMATACEAE		
....SPIROGYRA	*	0
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..CENTRALES		
...COSCINODISCACEAE		
....MELOSIRA	48#	24
..PENNALES		
...CYMBELLACEAE		
....CYMBELLA	*	0
...DIATOMACEAE		
....DIATOMA	*	0
...FRAGILARIACEAE		
....FRAGILARIA	81#	41
...NAVICULACEAE		
....NAVICULA	10	5
...NITZSCHIACEAE		
....NITZSCHIA	34#	17
...SURIRELLACEAE		
....CYMATOPLEURA	5	2
EUGLENOPHYTA (EUGLENOIDS)		
.EUGLENOPHYCEAE		
..EUGLENALES		
...EUGLENACEAE		
....EUGLENA	14	7

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

OCT. 19, 1977
1015 HOURS

IDENTIFICATION OF PERIPHYTON

_ORGANISM__NAME_	_COMMON__NAME_
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..ULOTRICHALES	
...MICROSPORACEAE	
....MICROSPORA	
..ZYGNEMATALES	
...DESMIDIACEAE	PLACODERM DESMIDS
....CLOSTERIUM	
...ZYGNEMATACEAE	
& ....SPIROGYRA	
CHRYSOPHTYA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...CYMBELLACEAE	
....AMPHORA	
....CYMBELLA	
...NAVICULACEAE	NAVICULOID
....NAVICULA	
....STAURONEIS	
...SURIRELLACEAE	
....SURIRELLA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

QUALITIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

SUBLETTE COUNTY--Continued

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              422503110215601 28N 114W 15AAD01
          PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

     DATE                                  OCT 19,77
     TIME                                     1055

     TOTAL CELLS/ML                            580

     DIVERSITY: DIVISION                       0.0
               .CLASS                          0.0
               ..ORDER                         0.0
               ...FAMILY                       1.4
               ....GENUS                       2.0

                                       CELLS  PER-
      ORGANISM                          /ML   CENT

     CHRYSOPHYTA
     .BACILLARIOPHYCEAE
     ..PENNALES
     ...CYMBELLACEAE
     ....EPITHEMIA                          44    8

     ...GOMPHONEMATACEAE
     ....GOMPHONEMA                         89#  15
     ...NAVICULACEAE
     ....MASTOGLOIA                         44    8
     ....NAVICULA                          310#  54
     ....PINNULARIA                         44    8
     ...NITZSCHIACEAE
     ....NITZSCHIA                          44    8

     NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
           * - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%
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OCT. 19, 1977
1055 HOURS

IDENTIFICATION OF PERIPHYTON

_ORGANISM__NAME________________	_COMMON__NAME_______
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...ACHNANTHACEAE	
....ACHNANTHES	
...CYMBELLACEAE	
....AMPHORA	
....CYMBELLA	
....EPITHEMIA	
...NAVICULACEAE	NAVICULOID
....NAVICULA	
....PINNULARIA	
...NITZSCHIACEAE	
....DENTICULA	
...SURIRELLACEAE	
....SURIRELLA	

NOTE: ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

SUBLETTE COUNTY--Continued

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        422953110242101 29N 114W 15DBC01
PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

     DATE                                 OCT 19,77
     TIME                                      0940

     TOTAL CELLS/ML                            2100

     DIVERSITY: DIVISION                        0.5
                .CLASS                          0.5
                ..ORDER                         1.1
                ...FAMILY                       1.1
                ....GENUS                       1.1

                                       CELLS  PER-
      ORGANISM                          /ML   CENT

     CHRYSOPHYTA
     .BACILLARIOPHYCEAE
     ..PENNALES
     ...ACHNANTHACEAE
     ....ACHNANTHES                        *    0

     ...NAVICULACEAE
     ....NAVICULA                          *    0
     ...NITZSCHIACEAE
     ....NITZSCHIA                       190    9

     CYANOPHYTA (BLUE-GREEN ALGAE)
     .CYANOPHYCEAE
     ..CHAMAESIPHONALES
     ...CHAMAESIPHONACEAE
     ....ENTOPHYSALIS                  1500#   75
     ..HORMOGONALES
     ...OSCILLATORIACEAE
     ....SCHIZOTHRIX                    310#   15

     NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
           * - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%
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                  OCT. 19. 1977
                   0940 HOURS

              PERIPHYTON IDENTIFICATION

     _ORGANISM__NAME_______________   _COMMON__NAME_______

    CHLOROPHYTA                       GREEN ALGAE
    .CHLOROPHYCEAE
    ..ULOTRICHALES
    ...MICROSPORACEAE
    ....MICROSPORA
    CHRYSOPHYTA
    .BACILLARIOPHYCEAE                DIATOMS
    ..PENNALES                        PENNATE
    ...GOMPHONEMATACEAE
    ....GOMPHONEMA
    ...NAVICULACEAE                   NAVICULOID
    ....CALONEIS
  & ....NAVICULA
    ....PINNULARIA
    ...NITZSCHIACEAE
    ....HANTZSCHIA
  & ....NITZSCHIA
    ...SURIRELLACEAE
    ....CYMATOPLEURA
    ....SURIRELLA
    CYANOPHYTA                        BLUE-GREEN ALGAE
    .CYANOPHYCEAE
    ..HORMOGONALES                    FILAMENTOUS BL-GREEN
    ...OSCILLATORIACEAE
    ....LYNGBYA
  & ....OSCILLATORIA

NOTE: & - ESTIMATED DOMINANT ORGANISM: NOT ACTUALLY COUNTED
      ANALYSIS METHOD: PERMANENT SLIDE MOUNTING. INVERTED MICROSCOPE
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QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

SUBLETTE COUNTY--Continued

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           422807110281601 29N 114W 30CCD01
PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE                                  OCT 19,77
TIME                                     1020

TOTAL CELLS/ML                           1700

DIVERSITY: DIVISION                       1.1
           .CLASS                         1.1
           ..ORDER                        1.1
           ...FAMILY                      1.8
           ....GENUS                      1.9

                                    CELLS  PER-
 ORGANISM                            /ML   CENT

CHLOROPHYTA (GREEN ALGAE)
.CHLOROPHYCEAE
..CHLOROCOCCALES
...OOCYSTACEAE
....ANKISTRODESMUS                    18    1
..VOLVOCALES
...CHLAMYDOMONADACEAE
....CHLAMYDOMONAS                      9    1

CHRYSOPHYTA
.BACILLARIOPHYCEAE
..PENNALES
...ACHNANTHACEAE
....ACHNANTHES                        18    1

...CYMBELLACEAE
....CYMBELLA                          18    1
...FRAGILARIACEAE
....FRAGILARIA                         *    0
...MERIDIONACEAE
....MERIDION                           9    1
...NAVICULACEAE
....NAVICULA                         140    8
....PINNULARIA                         *    0
...NITZSCHIACEAE
....NITZSCHIA                        960#  55
...SURIRELLACEAE
....CYMATOPLEURA                       9    1
....SURIRELLA                         27    2

CYANOPHYTA (BLUE-GREEN ALGAE)
.CYANOPHYCEAE
..HORMOGONALES
...NOSTOCACEAE
....ANABAENA                         490#  28

EUGLENOPHYTA (EUGLENOIDS)
.EUGLENOPHYCEAE
..EUGLENALES
...EUGLENACEAE
....EUGLENA                           18    1
....PHACUS                            27    2
NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

      * - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%
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QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

SUBLETTE COUNTY--Continued

422807110281601 29N 114W 30CCD01--Continued

OCT. 19, 1977
1020 HOURS

IDENTIFICATION OF PERIPHYTON

_ORGANISM__NAME	_COMMON__NAME
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..ZYGNEMATALES	
...DESMIDIACEAE	PLACODERM DESMIDS
....CLOSTERIUM	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...ACHNANTHACEAE	
....ACHNANTHES	
....COCCONEIS	
...CYMBELLACEAE	
....AMPHORA	
....CYMBELLA	
...FRAGILARIACEAE	
....FRAGILARIA	
...GOMPHONEMATACEAE	
....GOMPHONEMA	
...MERIDIONACEAE	
....MERIDION	
...NAVICULACEAE	NAVICULOID
& ....NAVICULA	
...NITZSCHIACEAE	
& ....NITZSCHIA	
...SURIRELLACEAE	
....SURIRELLA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

424632110020001 32N 111W 11ABC01
PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 24,77
TIME	1435
TOTAL CELLS/ML	290
DIVERSITY: DIVISION	0.3
.CLASS	0.3
..ORDER	0.3
...FAMILY	1.6
....GENUS	1.9

ORGANISM	CELLS /ML	PER-CENT
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...ACHNANTHACEAE		
....COCCONEIS	110#	39
...GOMPHONEMATACEAE		
....GOMPHONEMA	33	11
...NAVICULACEAE		
....GYROSIGMA	16	6
....NAVICULA	110#	39
EUGLENOPHYTA (EUGLENOIDS)		
.EUGLENOPHYCEAE		
..EUGLENALES		
...EUGLENACEAE		
....TRACHELOMONAS	16	6

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

SUBLETTE COUNTY--Continued

424632110020001 32N 111W 11ABC01--Continued

OCT. 24. 1977
1435 HOURS

PERIPHYTON IDENTIFICATION

_ORGANISM__NAME_______________	_COMMON__NAME_______
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..CLADOPHORALES	
...CLADOPHORACEAE	
....RHIZOCLONIUM	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...ACHNANTHACEAE	
....COCCONEIS	
....RHOICOSPHENIA	
...CYMBELLACEAE	
....CYMBELLA	
....RHOPALODIA	
...FRAGILARIACEAE	
....HANNAEA	
....SYNEDRA	
...GOMPHONEMATACEAE	
....GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
....GYROSIGMA	
....NAVICULA	
...NITZSCHIACEAE	
....NITZSCHIA	
...SURIRELLACEAE	
....SURIRELLA	
CYANOPHYTA	BLUE-GREEN ALGAE
.CYANOPHYCEAE	
..HORMOGONALES	FILAMENTOUS BL-GREEN
...OSCILLATORIACEAE	

NOTE: ANALYSIS METHOD: PERMANENT SLIDE MOUNTING. INVERTED MICROSCOPE

431636110005701 38N 110W 11ABC01 STINKY SPRING
PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 24,77
TIME	1515
TOTAL CELLS/ML	0
DIVERSITY: DIVISION	0.0
.CLASS	0.0
..ORDER	0.0
...FAMILY	0.0
....GENUS	0.0

ORGANISM	CELLS /ML	PER-CENT

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

OCT. 24. 1977
1515 HOURS

PERIPHYTON IDENTIFICATION

_ORGANISM__NAME_______________	_COMMON__NAME_______
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..ULOTRICHALES	
...MICROSPORACEAE	
& ....MICROSPORA	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...CYMBELLACEAE	
& ....CYMBELLA	
...NAVICULACEAE	NAVICULOID
& ....NAVICULA	

NOTE: & - ESTIMATED DOMINANT ORGANISM: NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING. INVERTED MICROSCOPE

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

SWEETWATER COUNTY

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        410043109475701 12N 110W 22ABB01
PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

     DATE                                OCT 23,77
     TIME                                   1335

     TOTAL CELLS/ML                          150

     DIVERSITY: DIVISION                     0.0
                .CLASS                       0.0
                ..ORDER                      0.0
                ...FAMILY                    0.5
                ....GENUS                    0.5

                                      CELLS  PER-
      ORGANISM                         /ML   CENT

     CHRYSOPHYTA
     .BACILLARIOPHYCEAE
     ..PENNALES
     ...FRAGILARIACEAE
     ....SYNEDRA                        19   13

     ...NAVICULACEAE
     ....NAVICULA                       130# 86

     NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
           * - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

                   OCT. 23. 1977
                    1335 HOURS

              PERIPHYTON IDENTIFICATION

   _ORGANISM__NAME_______________   _COMMON__NAME_______

   CHRYSOPHYTA
   .BACILLARIOPHYCEAE               DIATOMS
   ..PENNALES                       PENNATE
   ...CYMBELLACEAE
   ....AMPHORA
   ....EPITHEMIA
   ....RHOPALODIA
   ...FRAGILARIACEAE
   ....FRAGILARIA
   ...NAVICULACEAE                  NAVICULOID
   ....CALONEIS
 & ....MASTOGLOIA
 & ....NAVICULA
 & ....PINNULARIA
   ...NITZSCHIACEAE
   ....NITZSCHIA
   CYANOPHYTA                       BLUE-GREEN ALGAE
   .CYANOPHYCEAE
   ..HORMOGONALES                   FILAMENTOUS BL-GREEN
   ...OSCILLATORIACEAE
   ...RIVULARIACEAE
   ....CALOTHRIX

NOTE: & - ESTIMATED DOMINANT ORGANISM: NOT ACTUALLY COUNTED
      ANALYSIS METHOD: PERMANENT SLIDE MOUNTING. INVERTED MICROSCOPE
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QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

SWEETWATER COUNTY--Continued

410114109550201 12N 111W 15CAB01
PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 23,77
TIME	1030
TOTAL CELLS/ML	110
DIVERSITY: DIVISION	0.0
.CLASS	0.0
..ORDER	0.0
...FAMILY	1.8
....GENUS	1.8

ORGANISM	CELLS /ML	PER- CENT
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...ACHNANTHACEAE		
....ACHNANTHES	35#	33
...CYMBELLACEAE		
....RHOPALODIA	14	13
...GOMPHONEMATACEAE		
....GOMPHONEMA	43#	40
...NITZSCHIACEAE		
....NITZSCHIA	14	13

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

OCT. 23. 1977
1030 HOURS

PERIPHYTON IDENTIFICATION

_ORGANISM__NAME	_COMMON__NAME
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..ULOTRICHALES	
...MICROSPORACEAE	
& ....MICROSPORA	
...ULOTRICHACEAE	
....ULOTHRIX	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...ACHNANTHACEAE	
& ....ACHNANTHES	
...GOMPHONEMATACEAE	
....GOMPHONEMA	
...MERIDIONACEAE	
....MERIDION	
...NAVICULACEAE	NAVICULOID
....NAVICULA	
....PINNULARIA	
...NITZSCHIACEAE	
....NITZSCHIA	
...SURIRELLACEAE	
....SURIRELLA	

NOTE: & - ESTIMATED DOMINANT ORGANISM: NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING. INVERTED MICROSCOPE

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

SWEETWATER COUNTY--Continued

410024109520301 12N 111W 24ADD01
PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 23,77
TIME	1305
TOTAL CELLS/ML	0
DIVERSITY: DIVISION	0.0
.CLASS	0.0
..ORDER	0.0
...FAMILY	0.0
....GENUS	0.0

ORGANISM	CELLS /ML	PER- CENT

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

OCT. 23, 1977
1305 HOURS

PERIPHYTON IDENTIFICATION

	_ORGANISM__NAME_______________	_COMMON__NAME_______
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..OEDOGONIALES	
	...OEDOGONIACEAE	
	....OEDOGONIUM	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
	....ACHNANTHES	
	...CYMBELLACEAE	
	....CYMBELLA	
	....EPITHEMIA	
	....RHOPALOUIA	
	...FRAGILARIACEAE	
	....FRAGILARIA	
	...GOMPHONEMATACEAE	
	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
	....CALONEIS	
	....GYROSIGMA	
&	....NAVICULA	
	...NITZSCHIACEAE	
	....HANTZSCHIA	
	....NITZSCHIA	
	...SURIRELLACEAE	
	....SURIRELLA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.CYANOPHYCEAE	
	..HORMOGONALES	FILAMENTOUS BL-GREEN
	...NOSTOCACEAE	
&	....ANABAENA	
&	...OSCILLATORIACEAE	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

SWEETWATER COUNTY--Continued

410525110004201 13N 112W 23CAD01
PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 23,77
TIME	1100
TOTAL CELLS/ML	92
DIVERSITY: DIVISION	0.0
.CLASS	0.0
..ORDER	0.0
...FAMILY	0.0
....GENUS	0.0

ORGANISM	CELLS /ML	PER- CENT
CYANOPHYTA (BLUE-GREEN ALGAE)		
.CYANOPHYCEAE		
..CHROOCOCCALES		
...CHROOCOCCACEAE		
....ANACYSTIS	92#	100

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

OCT. 23, 1977
1100 HOURS

IDENTIFICATION OF PERIPHYTON

ORGANISM NAME	COMMON NAME
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...ACHNANTHACEAE	
....ACHNANTHES	
...CYMBELLACEAE	
....CYMBELLA	
....EPITHEMIA	
...FRAGILARIACEAE	
....FRAGILARIA	
...GOMPHONEMATACEAE	
....GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
....GYROSIGMA	
....NAVICULA	
....NEIDIUM	
....PINNULARIA	
....STAURONEIS	
...NITZSCHIACEAE	
....NITZSCHIA	
...SURIRELLACEAE	
....CYMATOPLEURA	
....SURIRELLA	

NOTE: ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

SWEETWATER COUNTY--Continued

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           411444109482201 15N 110W 27CDC01
PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

     DATE                                OCT 23,77
     TIME                                     1415

     TOTAL CELLS/ML                              0

     DIVERSITY: DIVISION                       0.0
                .CLASS                         0.0
                ..ORDER                        0.0
                ...FAMILY                      0.0
                ....GENUS                      0.0


                                        CELLS  PER-
      ORGANISM                           /ML   CENT

     NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
           * - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

                   OCT. 23, 1977
                    1415 HOURS

               PERIPHYTON IDENTIFICATION

  _ORGANISM__NAME_______________   _COMMON__NAME_______

  CHLOROPHYTA                      GREEN ALGAE
  .CHLOROPHYCEAE
  ..CLADOPHORALES
  ...CLADOPHORACEAE
& ....RHIZOCLONIUM
  ..ULOTRICHALES
  ...CHAETOPHORACEAE
& ....CHAETONEMA
  ...MICROSPORACEAE
  ....MICROSPORA
  CHRYSOPHYTA
  .BACILLARIOPHYCEAE               DIATOMS
  ..PENNALES                       PENNATE
  ...CYMBELLACEAE
  ....EPITHEMIA
  ...FRAGILARIACEAE
  ....FRAGILARIA
  ...NAVICULACEAE                  NAVICULOID
  ....NAVICULA
  CYANOPHYTA                       BLUE-GREEN ALGAE
  .CYANOPHYCEAE
  ..HORMOGONALES                   FILAMENTOUS BL-GREEN
  ...NOSTOCACEAE
& ....NOSTOC
  ...RIVULARIACEAE
& ....CALOTHRIX
  EUGLENOPHYTA                     EUGLENOIDS
  .EUGLENOPHYCEAE
  ..EUGLENALES
  ...EUGLENACEAE
  ....TRACHELOMONAS

NOTE: & - ESTIMATED DOMINANT ORGANISM: NOT ACTUALLY COUNTED
      ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE
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QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

SWEETWATER COUNTY--Continued

412118109574101 17N 111W 08ADA01

OCT. 24, 1977
0835 HOURS

IDENTIFICATION OF PERIPHYTON

_ORGANISM__NAME	_COMMON__NAME
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...NAVICULACEAE	NAVICULOID
....NAVICULA	
CYANOPHYTA	BLUE-GREEN ALGAE
.CYANOPHYCEAE	
..HORMOGONALES	FILAMENTOUS BL-GREEN
...RIVULARIACEAE	
& ....DICHOTHRIX	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

413331109245701 18N 106W 07BAD01
PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 24,77
TIME	0910
TOTAL CELLS/ML	3400
DIVERSITY: DIVISION	0.0
.CLASS	0.0
..ORDER	0.2
...FAMILY	2.3
....GENUS	2.5

ORGANISM	CELLS /ML	PER-CENT
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..CENTRALES		
...COSCINODISCACEAE		
....MELOSIRA	96	3
..PENNALES		
...ACHNANTHACEAE		
....ACHNANTHES	1100#	32
....COCCONEIS	64	2
....RHOICOSPHENIA	96	3
...CYMBELLACEAE		
....CYMBELLA	32	1
...DIATOMACEAE		
....DIATOMA	96	3
...FRAGILARIACEAE		
....SYNEDRA	540#	16
...GOMPHONEMATACEAE		
....GOMPHONEMA	160	5
...NAVICULACEAE		
....NAVICULA	990#	29
...NITZSCHIACEAE		
....NITZSCHIA	220	7

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

QUALITY OF GROUND WATER

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

SWEETWATER COUNTY--Continued

413331109245701 18N 106W 07BAD01--Continued

OCT. 24, 1977
0910 HOURS

PERIPHYTON IDENTIFICATION

_ORGANISM__NAME_	_COMMON__NAME_
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...ACHNANTHACEAE	
& ....ACHNANTHES	
...CYMBELLACEAE	
....CYMBELLA	
...FRAGILARIACEAE	
....FRAGILARIA	
...GOMPHONEMATACEAE	
....GOMPHONEMA	
...MERIDIONACEAE	
....MERIDION	
...NAVICULACEAE	NAVICULOID
& ....NAVICULA	
....PINNULARIA	
...NITZSCHIACEAE	
& ....NITZSCHIA	
...SURIRELLACEAE	
....SURIRELLA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

413709109043501 19N 104W 18CCB01
PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 24,77
TIME	1120
TOTAL CELLS/ML	0
DIVERSITY: DIVISION	0.0
.CLASS	0.0
..ORDER	0.0
...FAMILY	0.0
....GENUS	0.0

ORGANISM	CELLS /ML	PER- CENT

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

OCT. 24, 1977
1120 HOURS

PERIPHYTON IDENTIFICATION

- - NO ORGANISMS REPORTED

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

SWEETWATER COUNTY--Continued

415900109152601 23N 105W 12CAC01
PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 24,77
TIME	1020
TOTAL CELLS/ML	130
DIVERSITY: DIVISION	0.0
.CLASS	0.0
..ORDER	0.0
...FAMILY	1.0
....GENUS	1.0

ORGANISM	CELLS /ML	PER-CENT
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...NAVICULACEAE		
....NAVICULA	52#	39
...NITZSCHIACEAE		
....NITZSCHIA	81#	61

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

OCT. 24. 1977
1020 HOURS

PERIPHYTON IDENTIFICATION

_ORGANISM__NAME_	_COMMON__NAME_
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..ULOTRICHALES	
...CHAETOPHORACEAE	
....STIGEOCLONIUM	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...NAVICULACEAE	NAVICULOID
....NAVICULA	
....PINNULARIA	
...NITZSCHIACEAE	
....NITZSCHIA	
...SURIRELLACEAE	
....SURIRELLA	
CYANOPHYTA	BLUE-GREEN ALGAE
.CYANOPHYCEAE	
..CHROCCOCCALES	COCCOID BLUE-GREENS
...CHROCCOCCAEAE	
....ANACYSTIS	
..HORMOGONALES	FILAMENTOUS BL-GREEN
...NOSTOCACEAE	
& ....NOSTOC	

NOTE: & - ESTIMATED DOMINANT ORGANISM: NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING. INVERTED MICROSCOPE

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

SWEETWATER COUNTY--Continued

415851109363201 23N 108W 12CCB01

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO SEPTEMBER 1978

DATE	OCT 15,77
TIME	1600
TOTAL CELLS/ML	1600
DIVERSITY: DIVISION	1.4
.CLASS	1.4
..ORDER	1.5
...FAMILY	1.9
....GENUS	2.0

ORGANISM	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...OOCYSTACEAE		
....CHLORELLA	5	0
..ULOTRICHALES		
...CHAETOPHORACEAE		
....STIGEOCLONIUM	970#	59
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...NAVICULACEAE		
....ENTOMONEIS	28	2
..CENTRALES		
...COSCINODISCACEAE		
....CYCLOTELLA	5	0
....MELOSIRA	5	0
..PENNALES		
...ACHNANTHACEAE		
....ACHNANTHES	93	6
...CYMBELLACEAE		
....CYMBELLA	14	1
...FRAGILARIACEAE		
....SYNEDRA	28	2
...NAVICULACEAE		
....NAVICULA	100	6
...NITZSCHIACEAE		
....NITZSCHIA	28	2
...SURIRELLACEAE		
....SURIRELLA	23	1
CYANOPHYTA (BLUE-GREEN ALGAE)		
.CYANOPHYCEAE		
..HORMOGONALES		
...OSCILLATORIACEAE		
....OSCILLATORIA	320#	20
EUGLENOPHYTA (EUGLENOIDS)		
.CRYPTOPHYCEAE		
..CRYPTOMONIDALES		
...CRYPTOMONODACEAE		
....CRYPTOMONAS	5	0
.EUGLENOPHYCEAE		
..EUGLENALES		
...EUGLENACEAE		
....TRACHELOMONAS	5	0

NOTE: # - DOMINANT ORGANISM: GREATER OR EQUAL TO 15%
ANALYSIS METHOD: PALMER-MALONEY CELL, 200-X MICROSCOPE

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

SWEETWATER COUNTY--Continued

415851109363201 23N 108W 12CCB01--Continued

OCT. 15, 1977
1600 HOURS

IDENTIFICATION OF PERIPHYTON

ORGANISM NAME	COMMON NAME
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..ULOTRICHALES	
...CHAETOPHORACEAE	
....STIGEOCLONIUM	
...MICROSPORACEAE	
& ....MICROSPORA	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...NAVICULACEAE	NAVICULOID
& ....ENTOMONEIS	
...ACHNANTHACEAE	
& ....ACHNANTHES	
...CYMBELLACEAE	
....CYMBELLA	
...FRAGILARIACEAE	
& ....SYNEDRA	
...NAVICULACEAE	NAVICULOID
....NAVICULA	
...NITZSCHIACEAE	
....DENTICULA	
....NITZSCHIA	
...SURIRELLACEAE	
....SURIRELLA	
CYANOPHYTA	BLUE-GREEN ALGAE
.CYANOPHYCEAE	
..CHROCCOCCALES	COCCOID BLUE-GREENS
...CHROCCOCCAEAE	
....AGMENELLUM	
....ANACYSTIS	
..HORMOGONALES	FILAMENTOUS BL-GREEN
...OSCILLATORIACEAE	
....LYNGBYA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

415716109360501 23N 108W 24BAA01
PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 15,77
TIME	1215
TOTAL CELLS/ML	14000
DIVERSITY: DIVISION	1.2
.CLASS	1.2
..ORDER	1.2
...FAMILY	1.5
....GENUS	1.6

ORGANISM	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..ZYGNEMATALES		
...ZYGNEMATACEAE		
....SPIROGYRA	700	5
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...NAVICULACEAE		
....ENTOMONEIS	70	1
...FRAGILARIACEAE		
....SYNEDRA	6400#	48
...NAVICULACEAE		
....CALONEIS	140	1
....NAVICULA	350	3
...NITZSCHIACEAE		
....CYLINDROTHECA	70	1
....NITZSCHIA	140	1
CYANOPHYTA (BLUE-GREEN ALGAE)		
.CYANOPHYCEAE		
..HURMOGONALES		
...OSCILLATORIACEAE		
....SCHIZOTHRIX	5600#	41

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

SWEETWATER COUNTY--Continued

415716109360501 23N 108W 24BAA01--Continued

OCT. 15, 1977
1215 HOURS

IDENTIFICATION OF PERIPHYTON

ORGANISM NAME	COMMON NAME
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..ULOTRICHALES	
...MICROSPORACEAE	
....CYLINDROCAPSA	
& ....MICROSPORA	
..ZYGNEMATALES	
...ZYGNEMATACEAE	
....MOUGEOTIA	
....SPIROGYRA	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...ACHNANTHACEAE	
....ACHNANTHES	
...CYMBELLACEAE	
....AMPHORA	
....CYMBELLA	
....EPITHEMIA	
....RHOPALODIA	
...DIATOMACEAE	
....DIATOMA	
...FRAGILARIACEAE	
& ....SYNEDRA	
...GOMPHONEMATACEAE	
....GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
....CALONEIS	
....MASTOGLOIA	
& ....NAVICULA	
...NITZSCHIACEAE	
....CYLINDROTHECA	
....NITZSCHIA	
...SURIRELLACEAE	
....SURIRELLA	
CYANOPHYTA	BLUE-GREEN ALGAE
.CYANOPHYCEAE	
..HORMOGONALES	FILAMENTOUS BL-GREEN
...NOSTOCACEAE	
....NOSTOC	
...OSCILLATORIACEAE	
...RIVULARIACEAE	
....CALOTHRIX	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

SWEETWATER COUNTY--Continued

415641109363601 23N 109W 25BCB01
PHYTUPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 15,77
TIME	1400
TOTAL CELLS/ML	3000
DIVERSITY: DIVISION	0.7
.CLASS	0.7
..ORDER	0.7
...FAMILY	1.7
....GENUS	2.2

ORGANISM	CELLS /ML	PER- CENT
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...NAVICULACEAE		
....ENTOMONEIS	120	4
...FRAGILARIACEAE		
....SYNEDRA	120	4
...NAVICULACEAE		
....GYROSIGMA	97	3
....MASTOGLOIA	48	2
....NAVICULA	390	13
...NITZSCHIACEAE		
....CYLINDROTHECA	1500#	50
....NITZSCHIA	72	2
...SURIRELLACEAE		
....SURIRELLA	24	1
CYANOPHYTA (BLUE-GREEN ALGAE)		
.CYANOPHYCEAE		
..HORMOGONALES		
...NOSTOCACEAE		
....ANABAENA	630#	21

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

OCT. 15, 1977
1400 HOURS

IDENTIFICATION OF PERIPHYTON

_ORGANISM__NAME	_COMMON__NAME
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..ULOTRICHALES	
...MICROSPORACEAE	
& ....MICROSPORA	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...CYMBELLACEAE	
....EPITHEMIA	
....RHOPALODIA	
...FRAGILARIACEAE	
& ....SYNEDRA	
...NAVICULACEAE	NAVICULOID
....CALONEIS	
....GYROSIGMA	
....MASTOGLOIA	
...SURIRELLACEAE	
....SURIRELLA	
CYANOPHYTA	BLUE-GREEN ALGAE
.CYANOPHYCEAE	
..HORMOGONALES	FILAMENTOUS BL-GREEN
...NOSTOCACEAE	
& ....ANABAENA	
...OSCILLATORIACEAE	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

SWEETWATER COUNTY--Continued

420401109301501 24N 107W 11DAC01
PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 15,77
TIME	1700
TOTAL CELLS/ML	1400
DIVERSITY: DIVISION	0.9
.CLASS	0.9
..ORDER	0.9
...FAMILY	1.1
....GENUS	1.1

ORGANISM	CELLS /ML	PER- CENT
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...ACHNANTHACEAE		
....ACHNANTHES	500#	35
...NAVICULACEAE		
....NAVICULA	16	1
...NITZSCHIACEAE		
....NITZSCHIA	8	1
CYANOPHYTA (BLUE-GREEN ALGAE)		
.CYANOPHYCEAE		
..HORMOGONALES		
...OSCILLATORIACEAE		
....LYNGBYA	920#	64

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

OCT. 15, 1977
1700 HOURS

IDENTIFICATION OF PERIPHYTON

_ORGANISM__NAME_	_COMMON__NAME_
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..ULOTRICHALES	
...ULOTRICHACEAE	
& ....HORMIDIUM	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...ACHNANTHACEAE	
& ....ACHNANTHES	
...NAVICULACEAE	NAVICULOID
....NAVICULA	
...NITZSCHIACEAE	
....NITZSCHIA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

SWEETWATER COUNTY--Continued

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                 420055110024301 24N 111W 31ADD01
          PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

              DATE                                OCT 18,77
              TIME                                   1700

              TOTAL CELLS/ML                            0

              DIVERSITY: DIVISION                     0.0
                         .CLASS                       0.0
                         ..ORDER                      0.0
                         ...FAMILY                    0.0
                         ....GENUS                    0.0


                                                 CELLS  PER-
               ORGANISM                           /ML   CENT

              NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
                    * - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%
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OCT. 18, 1977
1700 HOURS

IDENTIFICATION OF PERIPHYTON

	ORGANISM NAME	COMMON NAME
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..ULOTRICHALES	
	...CHAETOPHORACEAE	
	....STIGEOCLONIUM	
	...MICROSPORACEAE	
	....MICROSPORA	
	...ULOTRICHACEAE	
&	....ULOTHRIX	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
&	....ACHNANTHES	
	....COCCONEIS	
	....RHOICOSPHENIA	
	...CYMBELLACEAE	
	....CYMBELLA	
	...DIATOMACEAE	
	....DIATOMA	
	...FRAGILARIACEAE	
&	....FRAGILARIA	
	....SYNEDRA	
	...GOMPHONEMATACEAE	
&	....GOMPHONEMA	
	...NITZSCHIACEAE	
	....DENTICULA	
	....NITZSCHIA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.CYANOPHYCEAE	
	..HORMOGONALES	FILAMENTOUS BL-GREEN
	...OSCILLATORIACEAE	
	....OSCILLATORIA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

UINTA COUNTY

410130110032801 12N 112W 17AAD01

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 23,77
TIME	1010
TOTAL CELLS/ML	1000
DIVERSITY: DIVISION	0.9
.CLASS	0.9
..ORDER	0.9
...FAMILY	1.8
....GENUS	2.3

ORGANISM	CELLS /ML	PER- CENT
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...ACHNANTHACEAE		
....ACHNANTHES	240#	24
...NAVICULACEAE		
....GYROSIGMA	60	6
....NAVICULA	120	12
....NEIDIUM	180#	18
...NITZSCHIACEAE		
....NITZSCHIA	60	6
CYANOPHYTA (BLUE-GREEN ALGAE)		
.CYANOPHYCEAE		
..HORMOGONALES		
...NOSTOCACEAE		
....ANABAENA	360#	35

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

OCT. 23, 1977
1010 HOURS

IDENTIFICATION OF PERIPHYTON

ORGANISM NAME	COMMON NAME
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..ULOTRICHALES	
...MICROSPORACEAE	
....MICROSPORA	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...ACHNANTHACEAE	
....ACHNANTHES	
....RHOICOSPHENIA	
...CYMBELLACEAE	
....CYMBELLA	
....EPITHEMIA	
....RHOPALODIA	
...FRAGILARIACEAE	
....SYNEDRA	
...GOMPHONEMATACEAE	
....GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
....GYROSIGMA	
....NAVICULA	
....PINNULARIA	
...NITZSCHIACEAE	
....NITZSCHIA	
...SURIRELLACEAE	
....SURIRELLA	

NOTE: ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

UINTA COUNTY--Continued

410114110055601 12N 113W 13BCC01

PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 23,77
TIME	0925
TOTAL CELLS/ML	16
DIVERSITY: DIVISION	0.0
.CLASS	0.0
..ORDER	0.0
...FAMILY	0.9
....GENUS	1.6

ORGANISM	CELLS /ML	PER- CENT
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...FRAGILARIACEAE		
....FRAGILARIA	5#	33
...NITZSCHIACEAE		
....DENTICULA	5#	33
....NITZSCHIA	5#	33

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

OCT. 23, 1977
0925 HOURS

PERIPHYTON IDENTIFICATION

_ORGANISM__NAME	_COMMON__NAME
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...ACHNANTHACEAE	
....ACHNANTHES	
....RHOICOSPHENIA	
...CYMBELLACEAE	
....AMPHORA	
....CYMBELLA	
....EPITHEMIA	
....RHOPALODIA	
...FRAGILARIACEAE	
....FRAGILARIA	
...GOMPHONEMATACEAE	
....GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
....GYROSIGMA	
& ....NAVICULA	
....PINNULARIA	
...NITZSCHIACEAE	
....CYLINDROTHECA	
....NITZSCHIA	
...SURIRELLACEAE	
....SURIRELLA	
CYANOPHYTA	BLUE-GREEN ALGAE
.CYANOPHYCEAE	
..HORMOGONALES	FILAMENTOUS BL-GREEN
...OSCILLATORIACEAE	
....LYNGBYA	

NOTE: & - ESTIMATED DOMINANT ORGANISM: NOT ACTUALLY COUNTED
SAMPLING METHOD: PLASTIC SLIDES, TIMED SAMPLING INTERVAL
ANALYSIS METHOD: GLASS CHAMBER(12MM CIRC), 200-X MI[illegible]OSCOPE

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

UINTA COUNTY--Continued

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                410016110062501 12N 113W 23ADD01
        PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

     DATE                                     OCT 23,77
     TIME                                        0945

     TOTAL CELLS/ML                               150

     DIVERSITY: DIVISION                          0.0
                .CLASS                            0.0
                ..ORDER                           0.0
                ...FAMILY                         0.0
                ....GENUS                         0.0

                                            CELLS  PER-
      ORGANISM                               /ML   CENT

     CHRYSOPHYTA
     .BACILLARIOPHYCEAE
     ..PENNALES
     ...NAVICULACEAE
     ....NAVICULA                            150#100

     NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
           * - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%
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                          OCT. 23. 1977
                           0945 HOURS

                     PERIPHYTON IDENTIFICATION

       _ORGANISM__NAME_______________     _COMMON__NAME_______

     CHLOROPHYTA                          GREEN ALGAE
     .CHLOROPHYCEAE
     ..ULOTRICHALES
     ...MICROSPORACEAE
     ....MICROSPORA
     ..ZYGNEMATALES
     ...ZYGNEMATACEAE
     ....SPIROGYRA
     CHRYSOPHYTA
     .BACILLARIOPHYCEAE                   DIATOMS
     ..PENNALES                           PENNATE
     ...ACHNANTHACEAE
     ....ACHNANTHES
     ...CYMBELLACEAE
     ....CYMBELLA
     ...GOMPHONEMATACEAE
     ....GOMPHONEMA
     ...MERIDIONACEAE
     ....MERIDION
     ...NAVICULACEAE                      NAVICULOID
     ....FRUSTULIA
     ....GYROSIGMA
     ....NAVICULA
     ....PINNULARIA
     ...NITZSCHIACEAE
     ....NITZSCHIA
     ...SURIRELLACEAE
     ....SURIRELLA

  NOTE: ANALYSIS METHOD: PERMANENT SLIDE MOUNTING. INVERTED MICROSCOPE
```

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

UINTA COUNTY--Continued

```
        410611110034101 13N 112W 17DDB01          WEBB SPRING
PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

     DATE                                    OCT 23,77
     TIME                                        1120

     TOTAL CELLS/ML                                 0

     DIVERSITY: DIVISION                          0.0
                .CLASS                            0.0
                ..ORDER                           0.0
                ...FAMILY                         0.0
                ....GENUS                         0.0

                                          CELLS  PER-
      ORGANISM                             /ML   CENT

     NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
           * - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%
```

OCT. 23, 1977
1120 HOURS

IDENTIFICATION OF PERIPHYTON

ORGANISM NAME	COMMON NAME
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...ACHNANTHACEAE	
& ....ACHNANTHES	
...CYMBELLACEAE	
....CYMBELLA	
...FRAGILARIACEAE	
....FRAGILARIA	
...MERIDIONACEAE	
....MERIDION	
...NAVICULACEAE	NAVICULOID
....CALONEIS	
....GYROSIGMA	
....PINNULARIA	
...NITZSCHIACEAE	
....NITZSCHIA	
...SURIRELLACEAE	
....SURIRELLA	
CYANOPHYTA	BLUE-GREEN ALGAE
.CYANOPHYCEAE	
..HORMOGONALES	FILAMENTOUS BL-GREEN
...OSCILLATORIACEAE	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

UINTA COUNTY--Continued

```
         410659110183701 13N 114W 07CAC01          HONEY CREEK SPRING
PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

     DATE                                  OCT 22,77
     TIME                                    1640

     TOTAL CELLS/ML                            86

     DIVERSITY: DIVISION                      0.0
                .CLASS                        0.0
                ..ORDER                       0.0
                ...FAMILY                     0.0
                ....GENUS                     0.0

                                        CELLS  PER-
      ORGANISM                           /ML   CENT

     CYANOPHYTA (BLUE-GREEN ALGAE)
     .CYANOPHYCEAE
     ..CHROOCOCCALES
     ...CHROOCOCCACEAE
     ....ANACYSTIS                         86#100

     NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
           * - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%


                   OCT. 22, 1977
                    1640 HOURS

              PERIPHYTON IDENTIFICATION

   _ORGANISM__NAME_______________   _COMMON__NAME_______

  CHLOROPHYTA                       GREEN ALGAE
  .CHLOROPHYCEAE
  ..ULOTRICHALES
  ...MICROSPORACEAE
& ....MICROSPORA
  ...ULOTRICHACEAE
& ....ULOTHRIX
  CHRYSOPHYTA
  .BACILLARIOPHYCEAE                DIATOMS
  ..PENNALES                        PENNATE
  ...ACHNANTHACEAE
& ....ACHNANTHES
  ...CYMBELLACEAE
& ....CYMBELLA
  ....EPITHEMIA
  ....RHOPALODIA
  ...DIATOMACEAE
  ....DIATOMA
  ...GOMPHONEMATACEAE
  ....GOMPHONEMA
  ...MERIDIONACEAE
  ....MERIDION
  ...NAVICULACEAE                   NAVICULOID
  ....PINNULARIA
  ...NITZSCHIACEAE
  ....DENTICULA
  ....NITZSCHIA
  ...SURIRELLACEAE
  ....SURIRELLA

NOTE: & - ESTIMATED DOMINANT ORGANISM: NOT ACTUALLY COUNTED
      ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE
```

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

UINTA COUNTY--Continued

```
          410514110175401 13N 114W 19DAD01
     PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

          DATE                                  OCT 22,77
          TIME                                     1605

          TOTAL CELLS/ML                              0

          DIVERSITY: DIVISION                       0.0
                     .CLASS                         0.0
                     ..ORDER                        0.0
                     ...FAMILY                      0.0
                     ....GENUS                      0.0


                                               CELLS  PER-
           ORGANISM                             /ML   CENT

          NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
                * - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%
```

```
                    OCT. 22, 1977
                     1605 HOURS

                  PERIPHYTON IDENTIFICATION

       _ORGANISM__NAME_______________   _COMMON__NAME_______

       CHRYSOPHYTA
       .BACILLARIOPHYCEAE                DIATOMS
       ..PENNALES                        PENNATE
       ...FRAGILARIACEAE
       ....FRAGILARIA
       ...NITZSCHIACEAE
       ....NITZSCHIA

  NOTE: ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE
```

```
          410641110074701 13N 115W 16ABA01
     PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

          DATE                                  OCT 22,77
          TIME                                     1505

          TOTAL CELLS/ML                            740

          DIVERSITY: DIVISION                       1.1
                     .CLASS                         1.1
                     ..ORDER                        1.1
                     ...FAMILY                      2.0
                     ....GENUS                      2.1


                                               CELLS  PER-
           ORGANISM                             /ML   CENT

          CHLOROPHYTA (GREEN ALGAE)
          .CHLOROPHYCEAE
          ..CHLOROCOCCALES
          ...CHARACIACEAE
          ....SCHROEDERIA                          9    1

          CHRYSOPHYTA
          .BACILLARIOPHYCEAE
          ..PENNALES
          ...ACHNANTHACEAE
          ....ACHNANTHES                         120#  16

          ...CYMBELLACEAE
          ....CYMBELLA                             9    1
          ...FRAGILARIACEAE
          ....SYNEDRA                             26    3
          ...GOMPHONEMATACEAE
          ....GOMPHONEMA                          26    3
          ...NAVICULACEAE
          ....NAVICULA                           110   15
          ....PINNULARIA                           9    1
          ...NITZSCHIACEAE
          ....NITZSCHIA                           34    5

          CYANOPHYTA (BLUE-GREEN ALGAE)
          .CYANOPHYCEAE
          ..CHROOCOCCALES
          ...CHROOCOCCACEAE
          ....ANACYSTIS                          400#  54

          NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
                * - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%
```

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

UINTA COUNTY--Continued

410641110074701 13N 115W 16ABA01--Continued

OCT. 22, 1977
1505 HOURS

PERIPHYTON IDENTIFICATION

_ORGANISM__NAME_______________	_COMMON__NAME_______
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...ACHNANTHACEAE	
& ....ACHNANTHES	
...CYMBELLACEAE	
....AMPHORA	
....CYMBELLA	
....EPITHEMIA	
....RHOPALODIA	
...FRAGILARIACEAE	
....FRAGILARIA	
& ....SYNEDRA	
...GOMPHONEMATACEAE	
& ....GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
....ANOMOEONEIS	
....CALONEIS	
& ....DIPLONEIS	
& ....NAVICULA	
....NEIDIUM	
....PINNULARIA	
...NITZSCHIACEAE	
....DENTICULA	
& ....NITZSCHIA	
...SURIRELLACEAE	
....SURIRELLA	
CYANOPHYTA	BLUE-GREEN ALGAE
.CYANOPHYCEAE	
..HORMOGONALES	FILAMENTOUS BL-GREEN
...OSCILLATORIACEAE	
....MICROCOLEUS	
EUGLENOPHYTA	EUGLENOIDS
.EUGLENOPHYCEAE	
..EUGLENALES	
...EUGLENACEAE	
....EUGLENA	
....TRACHELOMONAS	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

UINTA COUNTY--Continued

```
           410428110151801 13N 115W 25DBD01
     PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

        DATE                                    OCT 22,77
        TIME                                       1540

        TOTAL CELLS/ML                                5

        DIVERSITY: DIVISION                         0.0
                   .CLASS                           0.0
                   ..ORDER                          0.0
                   ...FAMILY                        0.0
                   ....GENUS                        0.0


                                              CELLS  PER-
         ORGANISM                              /ML   CENT

        CHRYSOPHYTA
        .BACILLARIOPHYCEAE
        ..PENNALES
        ...NITZSCHIACEAE
        ....NITZSCHIA                             5#100


        NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
              * - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

                      OCT. 22, 1977
                       1540 HOURS

                 PERIPHYTON IDENTIFICATION

       _ORGANISM__NAME_______________   _COMMON__NAME_______

      CHLOROPHYTA                        GREEN ALGAE
      .CHLOROPHYCEAE
      ..ULOTRICHALES
      ...MICROSPORACEAE
      ....MICROSPORA
      CHRYSOPHYTA
      .BACILLARIOPHYCEAE                 DIATOMS
      ..PENNALES                         PENNATE
      ...ACHNANTHACEAE
    & ....ACHNANTHES
      ....COCCONEIS
      ...CYMBELLACEAE
      ....CYMBELLA
      ...DIATOMACEAE
    & ....DIATOMA
      ...FRAGILARIACEAE
    & ....SYNEDRA
      ...GOMPHONEMATACEAE
    & ....GOMPHONEMA
      ...NAVICULACEAE                    NAVICULOID
      ....FRUSTULIA
      ....NAVICULA
      ....PINNULARIA
      ....STAURONEIS
      ...NITZSCHIACEAE
      ....NITZSCHIA
      ...SURIRELLACEAE
      ....SURIRELLA
      CYANOPHYTA                         BLUE-GREEN ALGAE
      .CYANOPHYCEAE
      ..CHAMAESIPHONALES
      ...CHAMAESIPHONACEAE
      ....ENTOPHYSALIS
      ..HORMOGONALES                     FILAMENTOUS BL-GREEN
      ...OSCILLATORIACEAE
      ....MICROCOLEUS

   NOTE: & - ESTIMATED DOMINANT ORGANISM: NOT ACTUALLY COUNTED
         ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE
```

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

UINTA COUNTY--Continued

410732110270701 13N 116W 11AAA01
PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

DATE	OCT 22,77
TIME	1425
TOTAL CELLS/ML	230
DIVERSITY: DIVISION	0.9
.CLASS	0.9
..ORDER	0.9
...FAMILY	2.6
....GENUS	2.6

ORGANISM	CELLS /ML	PER- CENT
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...ACHNANTHACEAE		
....ACHNANTHES	54#	24
...DIATOMACEAE		
....DIATOMA	7	3
...FRAGILARIACEAE		
....SYNEDRA	40#	18
...GOMPHONEMATACEAE		
....GOMPHONEMA	7	3
...NAVICULACEAE		
....NAVICULA	47#	21
...NITZSCHIACEAE		
....NITZSCHIA	20	9
CYANOPHYTA (BLUE-GREEN ALGAE)		
.CYANOPHYCEAE		
..HORMOGONALES		
...OSCILLATORIACEAE		
....OSCILLATORIA	47#	21
EUGLENOPHYTA (EUGLENOIDS)		
.EUGLENOPHYCEAE		
..EUGLENALES		
...EUGLENACEAE		
....TRACHELOMONAS	7	3

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

UINTA COUNTY--Continued

410732110270701 13N 116W 11AAA01--Continued

OCT. 22, 1977
1425 HOURS

PERIPHYTON IDENTIFICATION

	_ORGANISM__NAME_______________	_COMMON__NAME_______
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
	....ACHNANTHES	
	...CYMBELLACEAE	
	....AMPHORA	
	....EPITHEMIA	
	....RHOPALODIA	
	...FRAGILARIACEAE	
	....SYNEDRA	
	...GOMPHONEMATACEAE	
	....GOMPHONEMA	
	...MERIDIONACEAE	
	....MERIDION	
	...NAVICULACEAE	NAVICULOID
	....CALONEIS	
	....DIPLONEIS	
&	....NAVICULA	
	....PINNULARIA	
	...NITZSCHIACEAE	
	....HANTZSCHIA	
	....NITZSCHIA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.CYANOPHYCEAE	
	..HORMOGONALES	FILAMENTOUS BL-GREEN
	...NOSTOCACEAE	
	....ANABAENA	
	....NOSTOC	
	...OSCILLATORIACEAE	
&	....MICROCOLEUS	
	EUGLENOPHYTA	EUGLENOIDS
	.EUGLENOPHYCEAE	
	..EUGLENALES	
	...EUGLENACEAE	
	....TRACHELOMONAS	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: PERMANENT SLIDE MOUNTING, INVERTED MICROSCOPE

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

UINTA COUNTY--Continued

```
               410404110290301 13N 116W 33AAB01
        PHYTOPLANKTON ANALYSES, OCTOBER 1977 TO OCTOBER 1977

     DATE                                   OCT 22,77
     TIME                                      1447

     TOTAL CELLS/ML                             220

     DIVERSITY: DIVISION                        0.0
                .CLASS                          0.0
                ..ORDER                         0.0
                ...FAMILY                       2.7
                ....GENUS                       2.7

                                          CELLS  PER-
      ORGANISM                             /ML   CENT

     CHRYSOPHYTA
     .BACILLARIOPHYCEAE
     ..PENNALES
     ...ACHNANTHACEAE
     ....ACHNANTHES                        19     9

     ...CYMBELLACEAE
     ....AMPHORA                           32    15
     ...DIATOMACEAE
     ....DIATOMA                           51#   24
     ...FRAGILARIACEAE
     ....SYNEDRA                           26    12
     ...GOMPHONEMATACEAE
     ....GOMPHONEMA                        32    15
     ...NAVICULACEAE
     ....NAVICULA                          38#   18
     ...NITZSCHIACEAE
     ....NITZSCHIA                         19     9

     NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
           * - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%
```

```
                        OCT. 22, 1977
                         1447 HOURS

                   PERIPHYTON IDENTIFICATION

       _ORGANISM__NAME_______________   _COMMON__NAME_______

      CHLOROPHYTA                       GREEN ALGAE
      .CHLOROPHYCEAE
      ..ULOTRICHALES
      ...MICROSPORACEAE
    & ....MICROSPORA
      ..ZYGNEMATALES
      ...DESMIDIACEAE                   PLACODERM DESMIDS
      ....CLOSTERIUM
      ...ZYGNEMATACEAE
      ....SPIROGYRA
      CHRYSOPHYTA
      .BACILLARIOPHYCEAE                DIATOMS
      ..PENNALES                        PENNATE
      ...ACHNANTHACEAE
      ....ACHNANTHES
      ....COCCONEIS
      ...CYMBELLACEAE
    & ....CYMBELLA
      ...DIATOMACEAE
    & ....DIATOMA
      ...FRAGILARIACEAE
      ....FRAGILARIA
      ...GOMPHONEMATACEAE
      ....GOMPHONEMA
      ...MERIDIONACEAE
    & ....MERIDION
      ...NAVICULACEAE                   NAVICULOID
      ....NAVICULA
      ....PINNULARIA
      ...NITZSCHIACEAE
      ....NITZSCHIA
      ...SURIRELLACEAE
      ....SURIRELLA

NOTE: & - ESTIMATED DOMINANT ORGANISM: NOT ACTUALLY COUNTED
      ANALYSIS METHOD: PERMANENT SLIDE MOUNTING. INVERTED MICROSCOPE
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October 1, 1978

FACTORS FOR CONVERTING INCH-POUND UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the inch-pound units published herein to the International System of Units (SI). This report contains both the inch-pound and SI unit equivalents in the station manuscript descriptions.

Multiply inch-pound units	By	To obtain SI units
	Length	
inches (in)	2.54×10^{1}	millimeters (mm)
	2.54×10^{-2}	meters (m)
feet (ft)	3.048×10^{-1}	meters (m)
miles (mi)	1.609×10^{0}	kilometers (km)
	Area	
acres	4.047×10^{3}	square meters (m^2)
	4.047×10^{-1}	square hectometers (hm^2)
	4.047×10^{-3}	square kilometers (km^2)
square miles (mi^2)	2.590×10^{0}	square kilometers (km^2)
	Volume	
gallons (gal)	3.785×10^{0}	liters (L)
	3.785×10^{0}	cubic decimeters (dm^3)
	3.785×10^{-3}	cubic meters (m^3)
million gallons	3.785×10^{3}	cubic meters (m^3)
	3.785×10^{-3}	cubic hectometers (hm^3)
cubic feet (ft^3)	2.832×10^{1}	cubic decimeters (dm^3)
	2.832×10^{-2}	cubic meters (m^3)
cfs-days	2.447×10^{3}	cubic meters (m^3)
	2.447×10^{-3}	cubic hectometers (hm^3)
acre-feet (acre-ft)	1.233×10^{3}	cubic meters (m^3)
	1.233×10^{-3}	cubic hectometers (hm^3)
	1.233×10^{-6}	cubic kilometers (km^3)
	Flow	
cubic feet per second (ft^3/s)	2.832×10^{1}	liters per second (L/s)
	2.832×10^{1}	cubic decimeters per second (dm^3/s)
	2.832×10^{-2}	cubic meters per second (m^3/s)
gallons per minute (gal/min)	6.309×10^{-2}	liters per second (L/s)
	6.309×10^{-2}	cubic decimeters per second (dm^3/s)
	6.309×10^{-5}	cubic meters per second (m^3/s)
million gallons per day	4.381×10^{1}	cubic decimeters per second (dm^3/s)
	4.381×10^{-2}	cubic meters per second (m^3/s)
	Mass	
tons (short)	9.072×10^{-1}	megagrams (Mg) or metric tons